

Catalog 2020-2021





ASHEVILLE • MADISON • ENKA • SOUTH • WOODFIN (828) 398-7900 • ABTECH.EDU

Changing Lives • Strengthening Communities

Asheville-Buncombe Technical Community College

Catalog of Courses Day and Evening College Volume 58 2020-2021

Main College Contact Information

828-398-7900 www.abtech.edu

Asheville Campus

340 Victoria Road Asheville, NC 28801 Phone: 828-398-7900

Email: info@abtech.edu

A-B Tech Enka

1465 Sand Hill Road Candler, NC 28715

Phone: 828-398-7950 Fax: 828-281-9842

A-B Tech Madison

4646 U.S. Hwy. 25-70 Marshall, NC 28753

Phone: 828-398-7700 Fax: 828-281-9859

A-B Tech South

303B Airport Road Arden, NC 28704 828-398-7716

A-B Tech Police: 828-279-3166 or 828-398-7125

A-B Tech Woodfin

Buncombe County Public Safety Training Center A-B Tech Emergency Services Division 24 Canoe Lane Asheville, NC 28804

Governed by: Asheville-Buncombe Technical Community College Board of Trustees

Asheville-Buncombe Technical Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees, diplomas and certificates. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Asheville-Buncombe Technical Community College.

Recognized and approved by:

- North Carolina State Board of Community Colleges
- N.C. State Approving Agency for the Use of Veterans Military and Educational Benefits

Specific Program Accreditation/Certification (Contact information for each of the accrediting agencies is located in the respective program descriptions):

Accreditation

The Automotive Systems Technology program is accredited at the Master Automotive Service Technician level by: ASE Education Foundation

1503 Edwards Ferry Rd., NE, SE, Suite 401

Leesburg, VA 20176 Phone: (703) 669-6650

https://aseeducationfoundation.org/

Baking & Pastry Arts Program and Culinary Arts Technology Program Accreditation

The Baking and Pastry Arts and Culinary Arts programs are accredited by the Accrediting Commission of the American Culinary Federation Education Foundation.

American Culinary Federation Education Foundation Accrediting Commission (ACFEF)

180 Center Place Way St. Augustine, FL 32095 Phone: (904) 824-4468

www.acfchefs.org/ACF/Education/Accreditation/ACF/Education/Accreditation/

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Dental Assisting and Dental Hygiene Programs Accreditation

The Dental Assisting and Dental Hygiene programs are accredited by the American Dental Association, Commission on Dental Accreditation (CODA).

American Dental Association Commission on Dental Accreditation (CODA)

211 East Chicago Avenue

Chicago, IL 60611

Phone: (800) 621-8099, Ext. 2705

www.ada.org

Emergency Medical Science Accreditation

The A-B Tech paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP.)

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

9355 - 113th St. N, #7709 Seminole, FL 33775 Phone: (727) 210-2350 www.caahep.org

Medical Assisting Program Accreditation

The Medical Assisting program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), upon the recommendation of Medical Assisting Education Review Board (MAERB).

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

9355 - 113th St. N, #7709 Seminole, FL 33775 Phone: (727) 210-2350 www.caahep.org

Medical Assisting Education Review Board (MAERB)

20 N. Wacker Dr., Ste. 1575

Chicago, IL 60606 Phone: (800) 228-2262 www.maerb.org

Medical Lab Technology Program Accreditation

The Medical Laboratory program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

5600 N River Rd., Suite 720 Rosemont, IL 60018 Phone: (773) 714-8880 www.naacls.org

Medical Sonography Program Accreditation

The Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAA-HEP), upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC).

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

9355 - 113th St. N, #7709 Seminole, FL 33775 Phone: (727) 210-2350 Fax: (727) 210-2354 www.caahep.org

Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS)

6021 University Boulevard, Suite 500

Ellicott City, MD 21043 Phone: (443) 973-3251 www.jrcdms.org

Nursing (ADN) Pre-Accreditation

The Asheville-Buncombe Technical Community College Associate Degree Nursing program holds pre-accreditation status from the National League for Nursing Commission for Nursing Education Accreditation, located at 2600 Virginia Avenue, NW, Washington, DC, 20037. Holding pre-accreditation status does not guarantee that initial accreditation by NLN CNEA will be received. The Associate Degree of Nursing program is approved by the North Carolina Board of Nursing (NCBON).

North Carolina Board of Nursing

PO Box 2129 Raleigh, NC 27602 Phone (919) 782-3211 www.ncbon.com

Ophthalmic Assisting Program (Continuing Education) Accreditation

The Ophthalmic Assisting Program, offered through Continuing Education, is accredited by the International Joint Commission on Allied Health Personnel in Ophthalmology Education programs.

JLAHPO

2025 Woodlane Dr. St. Paul, MN 55125

Phone: 800-284-3937 or 651-731-2944

Fax: 651-731-0410 www.jcahpo.org

Occupational Therapy Assistant Accreditation

The Occupational Therapy Assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA).

Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA)

6116 Executive Boulevard, Suite 200

North Bethesda, MD 20852-4929

(301) 652-AOTA

www.acoteonline.org

Pharmacy Technology Accreditation

The Pharmacy Technology program is accredited by the American Society of Health System Pharmacists (ASHP.)

ASHP-American Society of Health-System Pharmacists

7272 Wisconsin Avenue Bethesda, Maryland 20814 Phone: 866-279-0681

www.ashp.org

Radiography Program Accreditation

The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

Joint Review Committee on Education in Radiologic Technology (JRCERT)

20 N. Wacker Drive, Suite 2850

Chicago, IL 60606-3182 Phone: (312) 704-5300 Fax: (312) 704-5304 www.jrcert.org

Surgical Technology Program Accreditation

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA).

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

9355 - 113th St. N, #7709 Seminole, FL 33775 Phone: (727) 210-2350

Fax: (727) 210-2354 www.caahep.org

Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA)

6 W. Dry Creek Circle, Suite #110

Littleton, CO 80120 Phone: (303) 694-9262 Fax: (303) 741-3655 www.arcstsa.org 1

Veterinary Medical Technology Accreditation

The Veterinary Medical Technology program is accredited by the American Veterinary Medical Association (AVMA) Committee on Veterinary Technician Education and Activities (CVTEA).

American Veterinary Medical Association (AVMA) Committee on Veterinary Technician Education and Activities (CVTEA)

1931 North Meacham Road, Suite 100

Schaumburg, IL 60173-4360 Phone: (800) 248-2862 Fax: (847) 925-1329 www.avma.org

Certification

Basic Law Enforcement Training (BLET) Accreditation Certification

The Basic Law Enforcement Training (BLET) program is certified by the:

North Carolina Criminal Justice Education and Training Standards Commission

PO Drawer 149 Raleigh, NC 27602 Phone: (919) 661-5980 www.ncdoj.gov

Approved

The Aviation Management & Career Pilot Technology program is approved by:

Federal Aviation Administration 800 Independence Avenue Washington, DC 20591 Phone: (703) 230-1664 www.faa.gov

The Phlebotomy program is approved by the:

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

5600 N River Rd., Suite 720 Rosemont, IL 60018 Phone: (773) 714-8880

Phlebotomy Program Approval

www.naacls.org

Cosmetology, Cosmetology Instructor, Esthetics Technology and Manicuring/Nail Technology Approval

The Cosmetology, Cosmetology Instructor, Esthetics Technology, and Manicuring/Nail Technology programs are approved by the:

North Carolina Board of Cosmetic Art Examiners

1207 Front Street, Suite 110 Raleigh, NC 27609 Phone: (919) 733-4117 Fax: (919) 733-4127 www.nccosmeticarts.com

For information about graduation rates, the median debt of students who completed the program, and other important information on federally-designated gainful employment programs, visit abtech.edu/about/consumer-information. For information regarding student achievement and success, visit abtech.edu.

A-B Tech is currently a member of SARA. SARA – the State Authorization Reciprocity Agreement – is an agreement between member states, territories and districts of the United States of America. States apply to their relevant regional education compact for membership in SARA, and they agree to deal with the distance education offerings of out-of-state SARA-participating institutions in accord with SARA's national policies, rather than applying the state-specific policies they used prior to joining SARA – policies they still apply to out-of-state institutions that do not participate in SARA.

After being approved as a SARA member state, SARA states invite the SARA-eligible institutions located in their state to participate. (Institutional participation, like state membership, is voluntary.) Institutions that meet SARA requirements and are approved by their SARA member state may, with some limitations, offer their distance education programs to students in other SARA member states without going through those states' normal, pre-SARA procedures and paying the states' normal fees to obtain authorization/approval to provide such offerings. Currently, California is the only U.S. state not a member of SARA.

Catalog changes:

The official and most current version of the Asheville-Buncombe Technical Community College catalog is posted on the College website at **abtech.edu/catalog**. Neither the online version nor the print version of the catalog should be considered a contract between Asheville-Buncombe Technical Community College and the student. Adjustments in program or course content, sequence, schedule, and faculty may be made as necessary. A minimum enrollment may be required to offer a course or continue a program. Charges for tuition and fees are subject to change. The College Calendar dates or events may change because of inclement weather or for other reasons.

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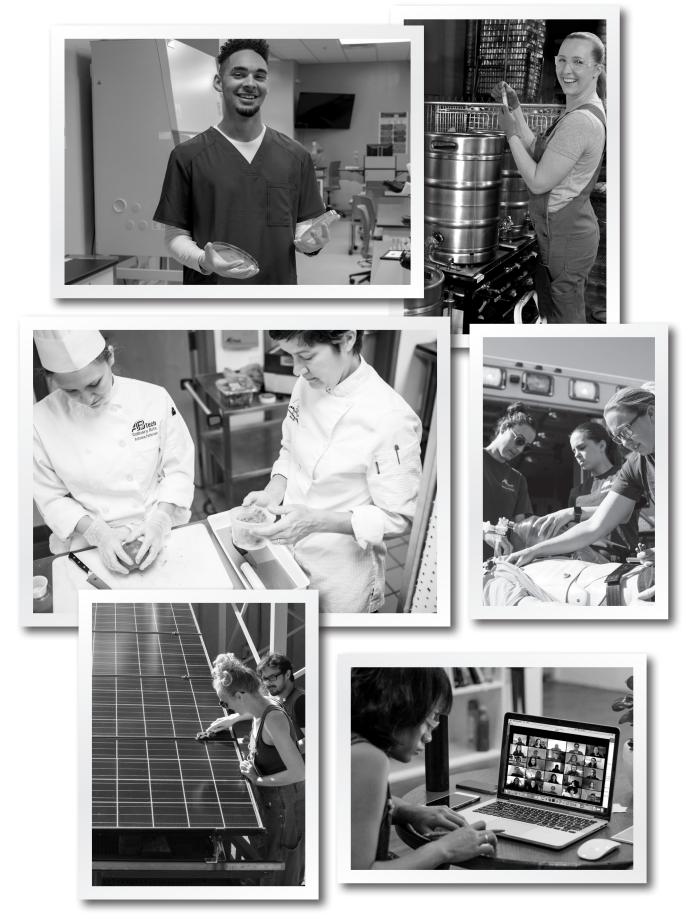
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| Biology Pathway - Appalachian State University | Civil Engineering Technology | |
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Curriculum Programs

| Program | Credential | Location |
|---|----------------------------|---------------------|
| Accounting | A.A.S. Degree | A |
| Accounting Certificate | Certificate | A |
| | A.A.S. Degree | A |
| Air Conditioning, Heating & Refrigeration Technology Air Conditioning, Heating & Refrigeration Technology | | A |
| e. | Diploma Certificate | A |
| Air Conditioning and Heating - Cooling | | |
| Air Conditioning and Heating - Heating | Certificate | A |
| Automotive Systems Technology | A.A.S. Degree | A |
| Automotive Systems Technology | Diploma | A |
| Automotive Systems Technology - Certificate I | Certificate | A |
| Automotive Systems Technology - Certificate II | Certificate | A |
| Aviation Management & Career Pilot Technology - Aviation Mgt. | A.A.S. Degree | S |
| Aviation Management & Career Pilot Technology - Career Pilot | A.A.S. Degree | S |
| Aviation - Instrument Rating | Certificate | S |
| Aviation - Private Pilot | Certificate | S |
| Baking and Pastry Arts | A.A.S. Degree | A |
| Baking and Pastry Arts | Certificate | A |
| Basic Law Enforcement Training | Certificate | W |
| Brewing, Distillation and Fermentation | A.A.S. Degree | E |
| Brewing Methods and Operations | Diploma | E |
| Distillation Methods and Operations | Diploma | E |
| Craft Beverage Lab | Certificate | E |
| Business Administration: General Business Administration | A.A.S. Degree | A/O |
| Business Administration: Marketing & Retailing | A.A.S. Degree | A |
| Business Administration | Diploma | A/O |
| Retail Marketing | Certificate | A |
| Civil Engineering Technology | A.A.S. Degree | A |
| Associate in Arts | A.A. Degree | A, S, O |
| Associate in Arts in Teacher Preparation | A.A. Degree | A |
| Associate in Science in Teacher Preparation | A.S. Degree | A |
| Associate in Engineering | A.E. Degree | A |
| Associate in Fine Arts in Visual Arts | A.F.A. Degree | A |
| Associate in General Education | A.G.E. Degree | A |
| Associate in Science | A.S. Degree | A |
| Computer-Aided Drafting Technology | A.A.S. Degree | A |
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| Architectural Drafting | Certificate | A |
| Computer Engineering Technology | A.A.S. Degree | A |
| PC and Network Maintenance | Certificate | A |
| Computer Integrated Machining | A.A.S. Degree | A |
| Computer Integrated Machining | Diploma | A |
| Computer-Integrated Machining - Basic Machining and CNC Programming | | A |
| Construction Management Technology | A.A.S. Degree | A |
| Building Construction Science | Diploma | A |
| Construction Management Technology | Certificate Certificate | A |
| Basic Construction & Millwork | | A |
| Cosmetology | A.A.S. Degree | A |
| Cosmetology | Diploma | A |
| Cosmetology Instructor | Certificate | A W |
| Criminal Justice Technology | A.A.S. Degree | |
| Culinary Arts | A.A.S. Degree | A Locations: |
| Culinary Studies | Certificate | A A - Victoria Road |
| Dental Assisting | Diploma | A M - Madison |
| Dental Hygiene Discal and Harry Fauinment Tachnalassy | A.A.S. Degree | A S - South |
| Diesel and Heavy Equipment Technology | A.A.S. Degree | A F - Fnka |
| Diesel and Heavy Equipment Technology | Diploma | A W Woodfin |
| Diesel and Heavy Equipment Technology | Certificate | A O - Online |
| Digital Media Technology | A.A.S. Degree | A G - Gilline |

| Program | Credential | Locati | ion |
|--|------------------------------|--------|-------------------|
| Digital Media Technology Digital Video | Certificate | A | |
| Digital Media Technology Design Level 1 | Certificate | A | |
| Digital Media Technology Design Level 2 | Certificate | A | |
| Early Childhood Associate | A.A.S. Degree | A | |
| Early Childhood: Licensure Transfer Track | A.A.S. Degree | A | |
| Early Childhood: Non-Licensure Transfer Track | A.A.S. Degree | A | |
| Early Childhood | Certificate | A | |
| Special Education | Certificate | A | |
| Infant/Toddler Care | Certificate | A | |
| Electrical Systems Technology | A.A.S. Degree | A | |
| Electrical Systems Technology | Diploma | A | |
| Electrical Systems Technology: Building Instrumentation & Control | Certificate | A | |
| Electrical Systems Technology: Electrical Wiring | Certificate | A | |
| Electronics Engineering Technology | A.A.S. Degree | A | |
| Electronics Manufcaturing | Certificate | A | |
| Emergency Medical Science | A.A.S. Degree | W | |
| Emergency Medical Science Bridge | A.A.S. Degree | W | |
| Basic Emergency Medical Science | Certificate | W | |
| Esthetics Technology | Certificate | A W | |
| Fire Protection Technology | A.A.S. Degree Certificate | W | |
| Fire Protection Technology General Occupational Technology | A.A.S. Degree | A A | |
| General Occupational Technology General Occupational Technology | Diploma | A | |
| General Occupational Technology General Occupational Technology | Certificate | A | |
| Geomatics Technology | A.A.S. Degree | A | |
| Geomatics Technology Geomatics Technology Land Surveying Fundamentals | Certificate | A | |
| Health and Fitness Science | A.A.S. Degree | A | |
| Hospitality Management | A.A.S. Degree | A | |
| Hospitality Management | Certificate | A | |
| Human Services Technology | A.A.S. Degree | A | |
| Human Services & Substance Abuse Studies | Certificate | A | |
| Industrial Systems Technology | A.A.S. Degree | A | |
| Industrial Systems Mechatronics | Diploma | A | |
| Industrial Systems Technology: Basic Maintenance | Certificate | A | |
| Information Technology: Information Systems | A.A.S. Degree | A | |
| Information Technology: Computer Fundamentals | Certificate | A | |
| Information Technology: GIS Fundamentals | Certificate | A/O | |
| Information Technology: PC Installation and Maintenance | Certificate | A | |
| Information Technology: Network Management | A.A.S. Degree | A | |
| Information Technology: Network Systems Administration | Certificate | A | |
| Information Technology: CCNA Preparation Certificate | Certificate | A | |
| Information Technology: Software and Web Development | A.A.S. Degree | A | |
| Information Technology: Web Developer Level I | Certificate | A/O | |
| Information Technology: Web Developer Level II | Certificate | A | |
| Information Technology: Database Management | Certificate | A | |
| Information Technology: Systems Security | A.A.S. Degree | A | |
| Information Technology: Systems Security | Certificate | A | |
| Manicuring/Nail Technology | Certificate | A | |
| Mechanical Engineering Technology | A.A.S. Degree | A | |
| Mechanical Engineering Technology: Automation & Robotics | Certificate | | Locations: |
| Medical Assisting | A.A.S. Degree | | A - Victoria Road |
| Medical Laboratory Technology | A.A.S. Degree | , I | M - Madison |
| Medical Office Administration | A.A.S. Degree | , I | S - South |
| Medical Office Administration | Diploma | 4 0 1 | E - Enka |
| Medical Office Administration Medical Coding | Certificate | , I | W - Woodfin |
| Medical Sonography | A.A.S. Degree | A | O - Online |

Credential **Program**

| Associate Degree Nursing | A.A.S. Degree | A |
|--|---------------|-------|
| LPN to ADN Option | A.A.S. Degree | A |
| Associate Degree Nursing RIBN Option | A.A.S. Degree | A |
| Occupational Therapy Assistant | A.A.S. Degree | A |
| Office Administration: Finance | A.A.S. Degree | A |
| Office Administration: General Office | A.A.S. Degree | A |
| Office Administration - Office Management | Certificate | A |
| Office Administration - Word Processing/Desktop Publishing | Certificate | A |
| Pharmacy Technology | A.A.S. Degree | A |
| Pharmacy Technology | Diploma | A |
| Phlebotomy | Certificate | A, GW |
| Radiography | A.A.S. Degree | A |
| Surgical Technology | A.A.S. Degree | A |
| Surgical Technology Bridge | A.A.S. Degree | A |
| Sustainability Technologies | A.A.S. Degree | A |
| Solar Photo Voltaic | Certificate | A |
| Veterinary Medical Technology | A.A.S. Degree | A |
| Welding Technology | A.A.S. Degree | A |
| Welding Technology | Diploma | A |
| Welding Technology - Basic Welding I | Certificate | A,M |
| The state of the s | | |

Locations:

Location

A - Victoria Road

M - Madison

S - South

E - Enka

W - Woodfin

O - Online

GW - Goodwill

Directory of College Services and Offices All telephone listings begin with 828 area code.

| The temphone issings begin with 626 inch code. |
|---|
| Business and Finance |
| Simpson Administration Building, Asheville Campus, 398-7111 |
| Bookstore |
| K. Ray Bailey Student Services Center, Asheville Campus, 398-7200 |
| Business Services |
| Roberson Building / 93 Victoria , Asheville Campus, 398-7542 |
| Campus Police and Security |
| A-B Tech/Mission Health Conference Center, Asheville Campus, 398-7870 |
| Student Parking Permits |
| K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Plant Operations Director, Business Manager, Facilities and Operation |
| Chestnut Building, Asheville Campus, 398-7482 or 398-7150 |
| Tuition, Payments, Refunds (Access Card), Student Accounts |
| Roberson Building / Asheville Campus, 398-7152, 398-7156 |
| College Advancement |
| A-B Tech Foundation. Executive Director |
| Ivy Building, Asheville Campus, 398-7176 |
| Alumni & Volunteers |
| Simpson Building, Asheville Campus, 398-7761 |
| Scholarships |
| K. Ray Bailey Student Services Center, Asheville Campus, 398-7562 |
| • |
| College Services & Information |
| A-B Tech Police |
| Mission Health/A-B Tech Conference Center, 16 Fernihurst Drive |
| Health Clinic |
| Ferguson Center, room# 115 |
| Help Desk |
| Information Center |
| K. Ray Bailey Student Services Center, Asheville Campus |
| Job Placement Career Services, 398-7209 |
| NCWorks Career Center, 251-6200 |
| Madison County Career Center, 782-2632 |
| Mountain Tech Lodge |
| Magnolia Building, Asheville Campus, 398-7248 |
| Community Relations and Marketing |
| Simpson Administration Building, Asheville Campus, 398-7117 |
| Webmaster |
| Simpson Administration Building, Asheville Campus, 398-7812 |
| Print Shop Manager |
| |

Simpson Administration Building, Asheville Campus, 398-7116

| Instructional Services | Vice President, Instructional Services |
|---|---|
| Academic Success & Public Service | Simpson Administration Building, Asheville Campus, 398-7633 |
| | Locke Building, Asheville Campus, 398-7885 |
| • | |
| Academic Related Instruction (ACA 115, ACA 122) | |
| Library | Director Locke Building, Asheville Campus, 398-7307 |
| Lisa Johnson Writing Center | |
| | Dean ed Health and Workforce Development, Asheville Campus, 398-7250 |
| | Dean |
| Business and Hospitality Education | Elm Building, Asheville Campus, 398-7650 |
| | Birch Building, Asheville Campus, 398-7286 |
| Buncombe | County Public Safety Training Center, A-B Tech Woodfin, 398-7353 |
| c c c. | Dogwood Building, Asheville Campus, 398-7220 Director, Elm Building |
| | Asheville Campus, 398-7538 |
| A-B Tech Madison | Director Ramsey Building, Marshall, 398-7701 |
| A-B Tech South | Director 303B Airport Road, Arden, 398-7716 |
| Transfer Advising Center | K. Ray Bailey Student Services Center, Asheville Campus, 398-7183 |
| Transitional Studies | |
| | n |
| BioNetwork | Director Technology Commercialization Center, A-B Tech Enka, 792-2323 |
| Small Business Center and Business Incubation | |
| • | Director ded Health and Workforce Development, Asheville Campus, 398-7134 |
| e e e e e e e e e e e e e e e e e e e | Dean |
| | Public Safety Training Center, A-B Tech Woodfin, 782-2123 |
| · · | ed Health and Workforce Development, Asheville Campus, 398-7925 |
| Human Resources & Organizational Development | Executive Director |
| ADA Compliance & Benefits. | Sunnicrest Building, Asheville Campus, 398-7178 |
| Employment | Sunnicrest Building, Asheville Campus, 398-7170 |
| ahtech edu | Sunnicrest Building, Asheville Campus, 398-7762 |

| | 10 |
|---------------------------------|---|
| | |
| Professional Development | Sunnicrest Building, Asheville Campus, 398-7114 Director |
| Tiolessional Development | Fernihurst Building, Asheville Campus, 398-7538 |
| Information Systems Technology | |
| | Roberson Building, Asheville Campus, 398-7929 |
| Help Desk | |
| Research & Planning | Executive Director |
| | Simpson Administration Building, Asheville Campus, 398-7175 |
| Student Services | Vice President, Student Services |
| Administra | K. Ray Bailey Student Services Center, Asheville Campus, 398-7146 |
| Admissions | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Advising | |
| 1.44.104.184.1 | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Career and College Promise | Director of Educational Partnerships |
| C | K. Ray Bailey Student Services Center, Asheville Campus, 398-7484 |
| Career Services | |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7209 |
| | Executive Assistant |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7143 |
| Counstilling | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Disability Services | Support Services Series, 15shevine Gampus, 376 7700 |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7581 |
| Emergencies and A-B Tech Police | |
| Financial Aid | Financial Aid |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Grade Changes | |
| Graduation Application | |
| •• | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Intramurals | Department Chair, Physical Education |
| | Coman Student Activity Center, 398-7843 |
| International Student Services | Student Advising and Testing Services |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7584 |
| Scholarships | |
| Student Academic Records | R. Ray bailey Student Services Center, Ashevine Campus, 596-7302 |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| | Director |
| | Coman Student Activity Center, Asheville Campus, 398-7900 |
| Student I.D. Cards | Information Desk |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Testing Center | Coordinator |
| Title IV Office | Simpson Building, Asheville Campus, 398-7219 Director |
| Title IA Office | K. Ray Bailey Student Services Center, Asheville Campus, 398-7932 |
| Transcript Request | |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |

| Transfer Credits | Records and Registration |
|--|---|
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Transfer-to-Senior-Institution Information | Transfer Advising Center |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7900 |
| Tutoring | |
| | Academic Learning Center, Ferguson Building |
| Veterans' Services | |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7206 |
| Visiting the Campus | Enrollment Services |
| | K. Ray Bailey Student Services Center, Asheville Campus, 398-7578 |

Address correspondence to the appropriate office in care of: **Asheville-Buncombe Technical Community College, 340 Victoria Road, Asheville, NC 28801**

Tel: 828-398-7900 • www.abtech.edu

College Calendar 2020–2021

All dates in this calendar are subject to change. For a full listing of College dates, visit abtech.edu/calendar

Fall Semester - 2020

| Registration Begins for Current/Returning Students | May 11 |
|--|--------------------------------|
| Registration Begins for New Students | June 22 |
| First Payment Deadline | August 14 |
| Second Payment Deadline | August 21 |
| Classes Begin | August 24 |
| 8-Week Term I | August 24 – October 19 |
| Labor Day Student Break | September 5 - September 7 |
| Labor Day (College Closed) | September 7 |
| Professional Development Day (No Classes for Students) | October 20 |
| 8-Week Term II | October 21 – December 19 |
| Thanksgiving Student Break (No Classes for Students) | November 25 - November 28 |
| Thanksgiving College Break (College Closed) | November 25 - November 27 |
| Thanksgiving Holiday (College Closed) | November 26 - November 27 |
| Last Day of Class | December 19 |
| Winter College Break (College closed) | December 21- January 1 |
| Winter College Holidays (College closed) Fall 16-week term contains 15 Saturdays | Dec. 22 –25; Dec. 28 - Dec. 31 |

Spring Semester –2021

| Registration Begins for Current/Returning Students | November 9 |
|---|-------------------------|
| Registration Begins for New Students | November 16 |
| First Payment Deadline | December 11 |
| Second Payment Deadline | January 8 |
| Classes Begin | January 11 |
| 8-Week Term I | January 11 – March 8 |
| Martin Luther King Jr. Student Break | January 16 - January 18 |
| Martin Luther King Jr. Day College Holiday (College Closed) | January 18 |
| Professional Development Day (no classes for students) | March 9 |
| 8-Week Term II | March 10 – May 11 |
| Student Spring Break (No Classes for Students) | March 29 – April 3 |
| College Closed | March 29 |
| College Closed | April 2 |
| Last Day of Class | May 11 |
| Spring Commencement | May 15 |

Spring 16-week term contains 15 Saturdays

Summer Semester – 2021

| Registration Begins for Current/Returning Students | April 19 |
|--|------------------|
| Registration Begins for New Students | April 26 |
| Payment Deadline | May 19 |
| 10-Week Term | May 21 – Aug. 2 |
| Memorial Day Student Break (College Open) | May 31 |
| 8-Week Term | June 4 – July 30 |
| Independence Day College Holiday (College Closed) | July 2 |
| Last Day of Classes | August 2 |

A-B Tech's Assessment of Student Achievement

A-B Tech's Mission is "Dedicated to student success, A-B Tech delivers quality education to enhance academic, workforce, and personal development." The College utilizes multiple measures of student achievement to monitor, in part, success in meeting the Mission, including:

- 1. Integrated Postsecondary Education Data System (IPEDS) Outcome Measure (This is a cohort driven, eight-year measure of student completion that is collected annually by the federal government.)
- North Carolina Community College System (NCCCS) Performance Measures (These are seven student success measures that are tracked annually by NCCCS. Performance on these measures are reported annually to system colleges and are linked to state performance funding.)
- 3. A-B Tech Student Retention and Completion Data (These are cohort-based measures of student success that were derived from the College's participation in national Achieving the Dream and statewide Completion by Design projects.)

As A-B Tech is dedicated to student success, the College expects that at minimum performance on national and state measures will meet or exceed those of peer institutions. It is the goal of A-B Tech that performance on each of the above measures will exceed the performance of peer institutions. On measures where national and state peer data are not available, the College expects to achieve established minimum annual thresholds with the goal of meeting or exceeding established annual targets. These thresholds and targets are based on historical performance data.

The most recent performance results for A-B Tech are presented below (For questions regarding any of the data provided below, please contact the Research and Planning Office at (828) 398-7175.)

IPEDS Outcome Measure – Eight-Year Graduation Rate

The IPEDS Outcome Measure (OM) survey component provides the award and enrollment statuses of four degree/certificate-seeking undergraduate student cohorts and eight sub-cohorts at degree-granting institutions. Student completion awards are collected at four-year, six-year, and eight-year status points after students have entered the institution. A-B Tech has selected the eight-year status point as our official completion rate.

A-B Tech expects performance on this measure, at a minimum, to meet or exceed the national average for 2-year colleges in the US. The College's goal is to exceed the national average by at least 10%.

| A-B Tech's Graduation Rate | National Average | Goal Status |
|----------------------------|------------------|---------------|
| 30.7% | 25.2% | Goal Exceeded |

NCCCS Performance Measures

The Performance Measures for Student Success Report is the North Carolina Community College System's major accountability document. This annual performance report is based on data compiled during the previous year and serves to inform colleges and the public on the performance of the system's 58 community colleges. Currently there are seven system-wide student success measures:

- 1. Basic Skills Student Progress
- 2. Student Success in College-Level English Courses
- 3. Student Success in College-Level Math Courses
- 4. First Year Progression
- 5. Curriculum Completion
- 6. Licensure and Certification Passing Rate
- 7. College Transfer Performance

A-B Tech expects performance on the following measures, at minimum, to meet or exceed the state average for all 58 community colleges. The College's goal is to exceed the state excellence level.

2019 Performance Measures Summary Report

(Based on 2017-18 Data)

| Performance Measure | System Excellence Level | Colleges Meeting Excellence Level | System Mean | A-B Tech Results | A-B Tech Performance |
|---|-------------------------------|--------------------------------------|----------------|---------------------|--|
| Basic Skills Student Progress | 50.6% | 9 | 41.8% | 36.1% | Below System Average, Above Baseline |
| Student Success Rate in College-Level English Courses | 66.6% | 16 | 61.0% | 52.9% | Below System Average, Above Baseline |
| Student Success Rate in College-Level Math Courses | 46.2% | 20 | 41.5% | 39.8% | Below System Average, Above Baseline |
| First-Year Progression (Fall 2017 Cohort) | 71.9% | 9 | 68.2% | 54.6% | Below System Baseline |
| Curriculum Completion (Fall 2014 Cohort) | 52.7% | 15 | 49.3% | 46.8% | Below System Average, Above Baseline |
| Licensure and Certification Passing Rate | 1.07 | 9 | .98 | 1.01 | Below Excellence Level, Above Mean |
| College Transfer Performance | 89.4% | 8 | 85.2% | 86.0% | Below Excellence Level, Above Mean |

Measure definitions:

- 1. Basic Skills Student Progress: Percentage of Periods of Participation (PoP) with at least one Measurable Skill Gain (MSG).
- 2. Student Success Rate in College-Level English Courses: Percentage of first-time associate degree seeking and transfer pathway students passing a credit-bearing English course with a "C" or better within three years of their first fall term of enrollment.
- 3. Student Success Rate in College-Level Math Courses: Percentage of first-time fall associate degree seeking and transfer pathway students passing a credit-bearing Math course with a "C" or better within three years of their first term of enrollment.
- 4. First Year Progression: Percentage of first-time fall credential-seeking students who graduate prior to or enroll in postsecondary education during the subsequent fall term.
- 5. Curriculum Student Completion: Percentage of first-time fall credential-seeking curriculum students who have graduated, transferred, or are still enrolled during the fourth academic year with 42 successfully completed non-developmental hours.
- 6. Licensure and Certification Passing Rate: Weighted index score of first-time test-taker results on licensure and certification exams. Exams included in this measure are state mandated exams which candidates must pass before becoming active practitioners. Weights are based on the funding tier associated with the related instructional program.
- College Transfer Performance: Among community college Associate Degree completers and those who have completed 30 or
 more articulated transfer credits who subsequently transfer to a four-year university or college during the fall semester, the percentage who graduate prior to or remain enrolled at any four-year college or university the subsequent fall semester.

Questions regarding student achievement data should be addressed to the College's Research and Planning Office

A-B Tech Student Retention and Completion Data

Based on data collection and assessment efforts during A-B Tech's participation in Achieving the Dream and Completion by Design processes, four student success measures were established:

- 1. Proportion of students persisting from year one to year two
- 2. Proportion of students earning 12 college credits in one year
- 3. Proportion of students earning 24 college credits in two years
- 4. Student progress over five years

The above measures are tracked annually and progress reports are provided each term to the Board of Trustees, College leadership and the campus community.

A-B Tech expects performance on the following measures, at minimum, to meet or exceed established baseline performance levels. The College's goal is to meet or exceed established targets.

A-B Student Success Measures

2018-19 Performance

| Measure | 2017-18 Performance | Baseline | Target | Goal Status |
|---|------------------------|----------|--------|---------------------------------|
| Proportion of students persisting from year 1 to year 2 ¹ | 53.3% | 50% | 58% | Above Baseline, Below Target |
| Proportion of students earning 12 college credits in 1 year ² | 55.3% | 50% | 58% | Above Baseline, Below Target |
| Proportion of students earning 24 college credits in 2 years ³ | 40.3% | 35% | 40% | Met/ Exceeded |
| Student progress over 5 years | | | | |
| - Total transferred, earned credential or enrolled | 48.8% | 40% | 45% | Met/ Exceeded |

Student cohorts are comprised of all award-seeking students entering the institution for the first time each fall term.

¹A persistor is a first-time curriculum student who attempted at least one course during any term in their second academic year; the course can be college level or developmental. This measure is not term specific; it is based on enrollment at any time during an academic year and subsequent enrollment in the following academic year.

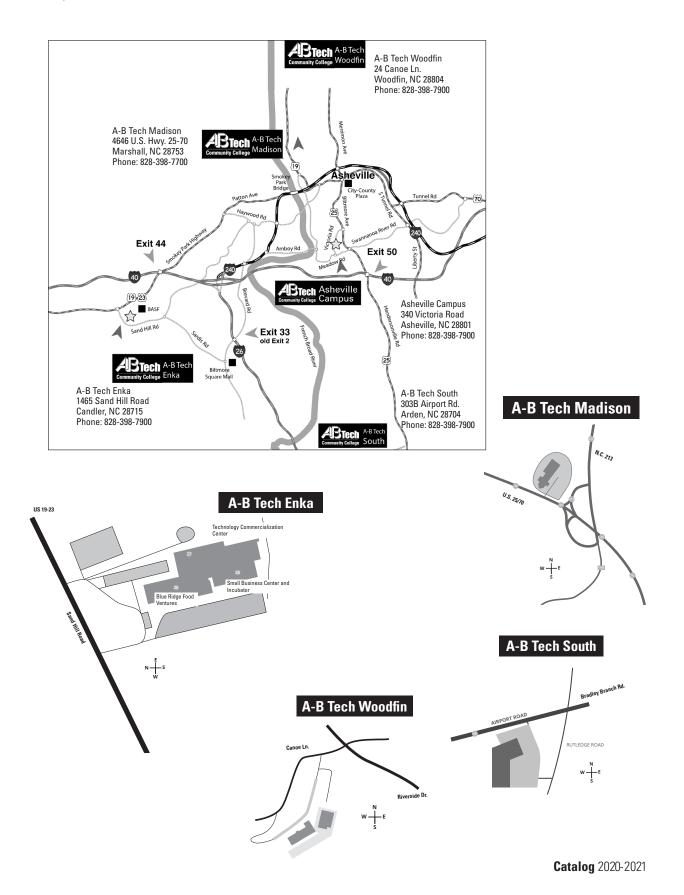
²First-time curriculum students earning 12 college-level credits with a C or better. Year is based on the student's first term and the subsequent two terms (including summer).

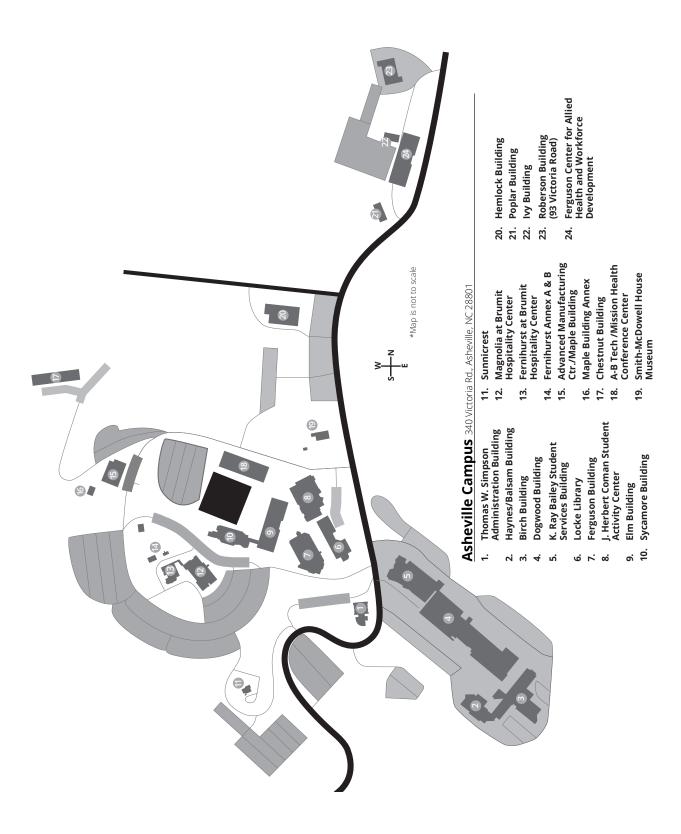
³First-time curriculum students earning 24 college-level credits with a C or better. Two years is based on the student's first term and the subsequent five terms (including summer).

Questions regarding student achievement data should be addressed to the College's Research & Planning Office.

Campus Maps

*Maps are not to scale





Organization

History

Asheville-Buncombe Technical Community College is one of 58 community colleges in the North Carolina Community College System and is dedicated to serving Buncombe and Madison counties. Originally funded by a bond election, the institution was established on April 3, 1958 as the Asheville Industrial Education Center and began serving students on September 1, 1959.

The name was changed to Asheville-Buncombe Technical Institute on January 9, 1964, after the N.C. General Assembly approved legislation creating the N.C. Community College System. This legislation enabled the College to confer the Associate in Applied Science degree for the first time at graduation ceremonies in August 1964.

The Board of Trustees approved a third name change to Asheville-Buncombe Technical College on August 6, 1979. A final name change occurred November 2, 1987, when the Board of Trustees approved Asheville-Buncombe Technical Community College, an action that became official when endorsed by the Buncombe County Commission on November 3, 1987.

In October 1988, the College received approval to offer associate degree programs. In September 1989, the College enrolled its first class for the Associate in Science degree. The Associate in Arts degree was first offered during summer quarter 1990-91.

On January 18, 1990, A-B Tech officially opened a site in Madison County. The College had served the county out of temporary quarters at the Marshall Elementary School since December 12, 1984.

By the fall term of 1997, the College had re-engineered all programs and converted to the semester system.

On October 23, 2000, BASF Corporation donated nearly 37 acres and several buildings to A-B Tech to establish a satellite site in Enka, which now houses the College's Small Business Center, Business Incubation Program, the Craft Beverage Institute of the Southeast, the N.C. BioNetwork, Blue Ridge Food Ventures, and other organizations dedicated to serving small businesses. The College's Continuing Education and Economic and Workforce Development programs were relocated from Enka to the main campus in 2015.

The College also opened A-B Tech South in 2013, offering Curriculum and Continuing Education classes. A-B Tech Woodfin, which houses the College's Emergency Services Department, was opened in October 2014.

Administration

The College initially was administered by the Asheville City Board of Education. Following the creation of the North Carolina Community College System, control passed to an independent Board of Trustees that is appointed by the Governor, Buncombe and Madison County Commission, and Asheville City/Buncombe County Boards of Education.

From the beginning, prominent Asheville and Buncombe County business and community leaders have helped to guide the College. In addition, each academic program has an advisory committee comprised of local professionals. Several hundred local citizens provide guidance for the educational programs of the College.

Curricula

The first program offered by the College was Practical Nursing. Electronics Engineering Technology and the Machinist programs were started in 1960. Today, the College offers the Associate in Arts, the Associate in Science, the Associate in Fine Arts in Visual Arts, the Associate in General Education, the Associate in Engineering, and the Associate in Applied Science degrees, diplomas, and certificates.

The Associate in Arts, Associate in Science, Associate in Fine Arts in Visual Arts, and Associate in Engineering degree programs are offered in the Division of Arts and Sciences. All career curricula and courses are offered through five divisions: Academic Success and Public Service, Allied Health, Business & Hospitality Education, Emergency Services and Engineering and Applied Technology.

The Division of Economic & Workforce Development/ Continuing Education offers workforce education and training for business, industry and the general public. Courses in healthcare, business, hospitality, technology, industry, trades and employability skills are available. Training can be customized to meet the unique needs of small, mid-sized, and large businesses and can be tailored for delivery on demand. Community enrichment classes, such as art, languages and practical skills, are offered year-round at each campus location throughout the College's service area.

Both curriculum and Economic & Workforce Development/Continuing Education programs are supported through activities of the Transitional Studies Department, the Academic Learning Center, The Carolyn L Johnson Writing Center and Locke Library. Classes meet on campus and at various off-campus sites. Course requirements are the same without regard to meeting times, formats, or locations.

Campus Facilities

A-B Tech now serves students from six locations, including the main campus in Asheville, A-B Tech Madison, A-B Tech Enka, A-B Tech South, A-B Tech Woodfin, and the Goodwill Center in West Asheville.

On March 15, 1961, the Industrial Education Center moved into two new buildings off Victoria Road in Asheville. Over the years, the Board of Trustees has acquired land that today totals more than 144 acres.

Located on the Asheville Campus are the historic Smith-McDowell House, the oldest brick structure in the region, Fernihurst Mansion, Sunnicrest, the only remaining lodge constructed by George Vanderbilt, and Ivy Hall, built as a gymnasium and auditorium for St. Genevieve-of-the-Pines school. Buncombe County Commissioners purchased property for A-B Tech belonging to St. Genevieve/Gibbons Hall, a private school that merged with Asheville Country Day School to form Carolina Day School. The Board of Trustees acquired the title to these 12.77 acres and four buildings on September 23, 1987. In 1990, the Commissioners purchased 16.75 acres contiguous to the west boundaries of the campus, which included Sunnicrest.

Over the years, a combination of special funding has provided for campus expansion. Since 1985, the North Carolina General Assembly has approved \$5 million in special legislation for campus construction. In statewide bond referendums, voters approved \$5 million in 1993, \$14 million in 2000, and \$5.4 million in 2016 for capital projects at A-B Tech.

Since 1987, Buncombe County voters have approved \$13.5 million in bonds to be used for campus additions and renovations. In 2011, Buncombe County voters also approved a ¼-cent sales tax dedicated to A-B Tech for construction and major renovations. The sales tax funded construction of the Ferguson Center for Allied Health and Workforce Development, dedicated in 2015, and the Mission Health/A-B Tech Conference Center and a 650-space parking garage, both dedicated in 2016.

Asheville-Buncombe Technical Community College Foundation

The Asheville-Buncombe Technical Community College Foundation was established in 1996 as a separate 501(c) (3) non-profit corporation. Its sole purpose is to provide financial support for the students and programs of A-B Tech. The A-B Tech Foundation meets critical needs that cannot be addressed in the College's normal operating budget. All gifts are tax deductible as allowed by law.

Current Status

A-B Tech, with strong local support, has expanded to six locations in Buncombe and Madison counties, expanded its curriculum and workforce training offerings, and provides numerous services to the community. The College has the largest total headcount enrollment of any institution of higher education in Western North Carolina, serving more than 23,000 students annually.

For latest Information on classes, operations and student services due to Covid-19, visit: www.abtech.edu

Location

The Asheville campus is located on Victoria Road in Asheville, North Carolina, a scenic mountain city repeatedly named one of the most livable cities in America. Situated near major interstates and on local transit routes, the College is convenient to the citizens it serves.

A-B Tech Madison is located in Marshall. A-B Tech Enka is located in the Enka-Candler community. A-B Tech South is located in Arden near the Asheville Airport. A-B Tech Woodfin is located in the Woodfin community just off of I-26. For more information, see **abtech.edu/locations.**

College Vision, Mission and Values Vision

Changing Lives. Strengthening Communities.

Mission

Dedicated to student success, A-B Tech delivers quality education to enhance academic, workforce, and personal development.

Values

- Excellence
- Integrity
- Supportive Learning Environment
- Innovation
- Service and Engagement

Economic & Workforce Development/ Continuing Education

Economic & Workforce Development/Continuing Education offers training and services to support economic development and lifelong learning in the community. Needs for higher professional education, employment skills, job training, personal growth and development, and business and economic development are continually identified through a variety of assessments.

A variety of instructional approaches are offered to meet community needs such as traditional classroom instruction, online or hybrid instruction, computer-assisted learning, community-based learning centers, on-site training for entrepreneurs, business and industry, internships and apprenticeships. Assessment and training consultation is also available for individuals, businesses, and agencies.

Offerings are built on the concept of lifelong learning and economic workforce trends. Classes and training are provided at a variety of times and at locations where the needs of students can conveniently be met. Students enrolling in workforce programs may be eligible for financial aid through training assistance programs such as Workforce Investment and Opportunities Act (WIOA), grants and scholarships.

Training and course work may earn Continuing Education Unit (CEU) credit applicable to certain professions, state and national certifications and credentials.

Programs are designed for adults age 18 or older. Minors ages 16 and 17, may enroll in classes, if space allows.

Costs

Registration fees for Economic & Workforce Development/Continuing Education courses vary. Additional fees may be charged for books, materials, supplies, and accident insurance depending on the

Programs & Services

Economic & Workforce Development/ Continuing Education needs are addressed in eight primary areas:

- 1. BioNetwork
- 2. Community Enrichment
- 3. Economic & Workforce Development
- 4. Emergency Services
- 5. NCWorks Career Center
- 6. Skills, Training & Employment Program (STEP)
- 7. Small Business Center & Business Incubation
- 8. Workforce Continuing Education

BioNetwork

BioNetwork is a statewide resource supporting the growth of the natural products and life science industries in North Carolina. Services at A-B Tech include a variety of laboratory, analytical and quality assurance testing as well as assistance with research and development.

Community Enrichment Programs

Community Enrichment Programs provide courses, seminars and activities that contribute to the community's overall cultural, civic, and intellectual growth. Courses are designed to assist adults in the development of new skills, or upgrading of existing ones. Hundreds of classes and events offered each year provide lifelong learning opportunities to community members of Buncombe and Madison counties. The Program offers a variety of classes in fine arts; from drawing and painting to photography and pottery (ceramics). The language component includes French, Italian, German, Spanish, and American Sign Language. Motorcycle Safety, Recreation, Music and Dance classes including fly fishing, yoga, ballroom and contemporary dance classes attract thousands of adult learners to the campus each year. Financial Wellness and Home and Garden classes such as backyard chickens, botany, upholstery, sewing and quilting add to the diversity of the courses offered.

Economic & Workforce Development

Economic & Workforce Development provides customized training and services that directly support local business and industry. Businesses of all sizes and types are served, offering workforce training solutions to strengthen the skill sets of employees and build opportunities for advancement, and increase productivity and profitability for companies. The College partners with local, regional, and state agencies to develop our local workforce and to implement flexible workforce training solutions.

Customized training is a specialized program that is designed to react quickly to the needs of businesses and to respect the confidential nature of proprietary processes and information within those businesses. Regardless of the technology or the challenges, A-B Tech has the ability to create training that fits the need. Our programs are designed to align with the needs and schedules of our clients. We can bring the training to your site, and can be flexible to accommodate shifts and productions schedules.

Customized training opportunities can include:

 Pre-employment activities (recruitment, customized job fairs, job profiling, skills assessment)

- Job-specific and advanced manufacturing processes (such as robotics, industrial maintenance, machining, electrical componentry)
- Business support, computer applications
- Continuous improvement, Lean/Six Sigma
- Leadership, supervisory skills, human resource and talent development
- Safety, OSHA general industry and regulatory subjects
- Technology
- Train-the-Trainer

Advanced Manufacturing provides education and training for individuals to prepare for new or different employment in advanced manufacturing, machining, blueprint reading, industrial maintenance, composites, forklift safety, supply chain basics, Six Sigma, logistics, OSHA training, craft beverage industry, production/inventory control and APICS certification. Many programs lead to local, state or national certifications.

Emergency Services Programs

Emergency Services Programs were created to establish a single point of contact for students, College personnel, and the community in the fields of fire services, law enforcement, and emergency medical services. These programs provide training in both curriculum and continuing education. A significant number of these courses are offered to meet licensure or certification requirements for employment in fire and rescue, criminal justice and law enforcement, and emergency medical services. Emergency Services Programs also offer numerous specialized classes that meet qualifications and standards required by governing agencies.

NCWorks Career Center Asheville

NCWorks Career Center Asheville is part of the statewide employment and training system. Staff members at the career center provide job seekers and employers with a wide array of services. Job seekers receive assistance in identifying careers that are a fit with their interests and abilities, finding job leads on ncworks.gov, and gaining job seeking skills in areas such as resume writing, networking and interviewing. In addition, job seekers are informed of labor market information relevant to their career and job search, as well as occupational skills training opportunities. Employers receive assistance in posting jobs on ncworks.gov, recruiting qualified candidates, setting up employer interview days and locating labor market information relevant to their industries. The NCWorks Career Center Madison is located at the College's A-B Tech Madison site located in Marshall.

Skills Training Employment Program (STEP)

Skills Training Employment Program (STEP) works one on one with SNAP (formerly known as food stamps) recipients within Buncombe County to offer guidance and financial support in attending and successfully completing A-B Tech courses and programs. Clients have the option of participating in occupational skills courses geared toward employment, high school equivalency courses, A-B Tech Job Club program and two-year curriculum courses. Additionally, STEP offers employment services geared toward living wage positions for our clients including hiring events with living wage employers, resume and cover letter development and community based workshops to assist in employment.

Small Business Center & Business Incubation

Small Business Center. The Small Business Center (SBC) is part of the statewide Small Business Center Network (SBCN), a community college-funded initiative with a vision to foster and support entrepreneurship, small business, and economic development in local communities with an emphasis on assisting start-ups, early stage, and at-risk enterprises. The mission of the Small Business Center is to increase the success rate and number of viable small businesses in North Carolina by providing high quality, readily accessible assistance to prospective and existing small business owners, with the goal of job creation and retention. Confidential counseling services and access to resource libraries are free of charge as are the majority of seminar offerings.

Business Incubation Program. Business Incubation at A-B Tech is a dynamic process of entrepreneurial development designed to increase business success through consultation services, coaching, access to shared resources, and either office, wet lab or manufacturing facilities. The purpose of the Business Incubation program is to create a business atmosphere that encourages the development of businesses that promise a public or private good, have the potential to create single or multiple additional jobs and which contribute to the economic development of the region once formally established.

Student Business Incubation Program. The Student Business Incubator Program is an extracurricular activity designed to provide a motivating, supportive environment to A-B Tech students who want to start their own business and guide them toward becoming sustainable, contributing members of a strong economic community. This program is administered by the A-B Tech Small Business Center (SBC) and is located at A-B Tech Enka.

Workforce Continuing Education Programs

Workforce Continuing Education Programs

encompass five areas providing education and training for individuals to prepare for new employment or upgrade skills in their current employment. These opportunities are available through single courses or a series of courses specifically designed for an occupation. A significant number of courses are offered to meet licensure or certification requirements.

Business & Hospitality Training helps businesses operate more efficiently, increase productivity, and provide superb customer service - all of which increase profits. The hospitality industry is a multibillion dollar industry that capitalizes on customer's leisure time and disposable income, providing multiple career options. This program focuses on technology marketing and communications, business office solutions, lodging/restaurant hospitality, craft beverage and outdoor recreation skills. Professional skills gained in this program are comprehensive, allowing flexibility to transfer into any career within a variety of industry sectors. Students can enter into a new career, advance within their current career, or explore emerging technologies that may lead to a career change.

Computer & Online Training encompasses a variety of skills and disciplines including Networking, Accounting, Grant Writing, Teaching & Education, Nonprofit, Business, Computers & Technology and even Healthcare. We offer both, on-site and online courses that provide a wealth of knowledge and skills specific to software and operating systems. All online courses have an instructor who is readily available to answer questions via the Discussion Area of the online course. This program is dedicated to helping students enhance their technology skills and attain job placement or advancement.

Health Occupations includes training in healthcare professions such as Nurse Aide I, Nurse Aide II, Medication Aide, Modular Education Program for Activity Professionals, Ophthalmic Assisting, Medical Terminology Made Easy, Veterinary and Dental Radiology. Students successfully completing the Nurse Aide I program and state exam will be listed on the North Carolina state registry for Nurse Aides. Additional courses are offered to professionals to include Mental Health First Aid.

Human Resources Development (HRD) classes focus on short-term basic employability skills training such as computer skills, job search, resumes, interviewing and introduction classes about local industry employment needs. These introduction classes highlight the basic skills and education level needed in healthcare, hospitality, manufacturing and other skilled trades to help students make informed decisions about their career choices. Classes are fee waived for unemployed and underemployed adults.

Occupational & Skilled Trades provides training for individuals to prepare for employment in industrial and technical fields, as well as upgrade the skills of individuals in their current career. Classes are available to train Code Enforcement Officials, to conduct Mechanical, Building, Electrical, and Fire Inspections. Courses are offered regularly to meet certification requirements for employment in careers such as automotive, escort vehicle operator, substitute teacher, human services, and electrical contractors. For those who like to work with their hands and enjoy building or fixing problems, hands-on classes are conducted by industry experts for learning blacksmithing, welding, woodworking, HVAC, electrical, and masonry skills. To encourage our community to live more sustainably, workshops are available in permaculture, green building, small scale living, and energy efficiency.

General Admission for Curriculum Students

The College accepts applications online at www.abtech. edu/admissions/admissions-overview continuously throughout the school year at no cost to the student. Early application is advised for many programs.

Admissions Policy

It is the policy of the Board of Trustees to maintain an open-door institution, which accepts all applicants who have graduated from high school, hold a high school equivalency (HSE) or adult high school diploma, are at least 18 years of age or older, are emancipated minors, or dual enrollment students. High school graduation or the equivalent from a valid institution or Ability to Benefit (ATB) eligibility is required for Financial Aid purposes.

- Some academic programs are selective and typically require the high school credential. Admission to these programs is selective in nature or have seat capacity.
- Individuals granted Deferred Action for Childhood Arrivals are eligible for admission based on the qualifications and limitations listed below:
 - Attended and graduated from a United States public high school, private high school, home school and/or adult high school that operates in compliance with state or local laws or completed a high school equivalency diploma.
 - Must be charged out-of-state tuition and are not considered a North Carolina resident for tuition purposes.

- Will be counseled that federal and state laws prohibit states from granting professional licenses.
- d. Must comply with all federal and state laws concerning financial aid.
- Undocumented immigrants are eligible for admission based on the qualifications and limitations listed below:
 - Attended and graduated from a United States public high school, private high school, home school and/or adult high school that operates in compliance with state or local laws or completed a high school equivalency diploma.
 - Must be charged out-of-state tuition and are not considered a North Carolina resident for tuition purposes.
 - c. Will be counseled that federal and state laws prohibit states from granting professional licenses to undocumented students.
 - d. Students lawfully present in the United States shall have priority over any undocumented immigrant in any program of study when capacity limitations exist.
 - e. Must comply with all federal and state laws concerning financial aid.
- 4. The College will refuse admission to any applicant when it is deemed necessary to protect the safety of the applicant or other individuals. When making this safety determination, the College shall refuse admission to an applicant only when there is an articulable, imminent, and significant threat to the applicant or other individuals. In this case, the College shall document the following:
 - a. Detailed facts supporting the rationale for denying admission;
 - The time period within which the refusal to admit shall be applicable and the supporting rationale for the designated time period;
 - c. The condition upon which the applicant that is refused would be eligible to be admitted.
- 5. The College has an appeals process for applicants denied admission pursuant to this policy.
- 6. Ability to Benefit (ATB) testing is required to receive Financial Aid in an eligible career pathway program for those students who do not hold the high school credential. Eligible career pathway programs do not include College transfer programs or selective or limited Allied Health programs which require the high school credential for professional or program accreditation or credentialing. Students must consult with an advisor in the Bailey Student

- Services Center before pursuing this option to discuss required College placement assessment score levels which allow ATB to be utilized for financial aid purposes.
- 7. The College will require proof of eligibility to possess a firearm to enroll in Basic Law Enforcement Training (BLET). Certified local law enforcement agency sponsorship is required for admission to the BLET program. Proof of eligibility for firearm possession will include:
 - Any current, valid State-issued permit to purchase a firearm;
 - A current, valid State-issued concealed carry permit from North Carolina;
 - A current, valid State-issued concealed carry permit from a state with a reciprocal concealed carry agreement with North Carolina;
 - d. Proof of an exemption from permit requirements pursuant to G.S. 14-415.25; or
 - e. A background check that is determined by the college. The sole purpose of the background check shall be to determine whether an applicant can lawfully possess a firearm in North Carolina pursuant to G.S. 14-269.8, G.S. 14-404(c), G.S. 14-415.1, G.S. 14-415.3, and G.S. 14-415.25

Admissions Procedure

- Submit an application for admission to the College. Applications are available online at abtech.edu or in paper format on campus. The preferred method of submission is electronic.
- Complete the online residency application during the college application or go directly to ncresidency.org. Immediately following completion of the residency application, retrieve Residency Certification Number (RCN).
- Provide the Residency Certification Number (RCN) on college application.
- 4. Upon receipt of a completed online College Foundation of North Carolina (CFNC) application for admission, staff verifies all data for the applicant in the student file in the NCCCS Colleague computer system. Applicants select their program of interest from available academic programs on the CFNC application.
- An electronic file is made for each applicant and all additional supporting documents are linked to this file.
- 6. Inactive students, who have not attended for two consecutive semesters, excluding summer, will need to do the following:

- Complete new college and residency applications by going to abtech.edu.
- b. Re-complete online residency application by going to ncresidency.org.
- 7. Students who are seeking a degree, diploma or certificate must do the following:
 - Submit transcripts from other colleges attended if transfer credit is desired.

OR

b. Submit satisfactory SAT or ACT test results (if less than 10 years old).

OR

c. Submit official high school transcripts.

OR

d. Take the College Placement Assessment or submit placement test scores from other standardized test used for placement purposes in North Carolina taken at another college within the last 10 years.

OR

- e. Submit Advanced Placement (AP) or College-Level Examination Program (CLEP) test scores.
- f. Meet with the faculty, program, Pre-Program or AGE Advisor or Transfer advisor for course selection and program assistance.
- g. Complete New Student Orientation. Degree completers and visiting students from another institution are waived from this and will receive a new student resource guide via email.
- h. Register at designated time.
- New non-degree, non-diploma, or non-certificate seeking applicants will:
 - Applicants who plan to enroll in English and mathematics classes or in classes for which English or math prerequisites exist must:
 - 1. Complete the College Placement Assessment or submit placement test scores from other standardized test used for placement purposes in North Carolina taken at another college within the last 10 years.

OR

2. Submit satisfactory SAT or ACT test reports which are less than 10 years old.

OR

Submit appropriate transfer credit prior to registering for courses.

- 4. Submit Advanced Placement (AP) or College-Level Examination Program (CLEP) test scores.
- 5. Submit official high school transcripts.
- b Complete New Student Orientation. Degree completers and visiting students from another institution are waived from this and will receive a new student resource guide via email.
- c. Register at designated time.
- Some academic programs are selective in nature, due to the high volume of applicants and the limited number of students who can be enrolled in the programs. Selective programs have an application period, which is typically in the fall and spring.
 - Applicants must show college level skills in English and Math. Other standardized tests used for placement purposes in North Carolina or appropriate transfer credits may be used to show college level skills.
 - Complete any prerequisite courses or certifications as required by the intended program of study.
 - Applicants who meet colle leve benchmarks in English and Math or have appropriate transfer credit, then meet with a AGE/Pre-program advisor in the K. Ray Bailey Student Services building to apply during the designated application period.
 - Ultimate selection in the program occurs in the fall and spring semester, and is based on the HOAE composite score and designated general education courses, allied health-related education and training credentials detailed in the published admissions criteria for programs other than Nursing. The TEAS composite score is used to rank Nursing applicants. Interested applicants should see a AGE/Pre-Program advisor in the K. Ray Bailey Student Services Building for application information and schedules.
- 10. Upon determination by the College that admission should be denied to an applicant to protect the safety of the applicant or other individuals because of an articulable, imminent, and significant threat, the following shall be documented and a letter sent to the applicant stating:
 - Detailed facts supporting the rationale for denying admission;
 - The time period within which the refusal to admit shall be applicable and the supporting rationale for the designated time period; and
 - The conditions upon which the applicant that is refused would be eligible to be admitted.

- 11. The provisions in this admissions safety exception procedure only apply during the time period prior to an applicant becoming admitted as a student at a community college. Once an applicant is admitted as a student, the Code of Student Conduct will apply.
- 12. The applicant has the right to appeal any action taken by the College. Any appeal must be in writing and be submitted to the Vice President for Student Services' office within ten (10) College business days. The Vice President for Student Services or his/her designee will forward the appeal, along with all documentation concerning the matter, to the President whose decision will be final.
- 13. To comply with federal law and the Department of Education requirements regarding the enrollment of students in distance education, students who reside in California are not allowed to enroll in A-B Tech Distance Education curriculum courses. A-B Tech is a member of the National Council for State Authorization Reciprocity Agreement (NC-SARA) which allows students from across the nation to enroll in distance education with the exception of California.

Dual High School Enrollment

The Career and College Promise Program offers structured opportunities for qualified high school juniors and seniors to accelerate completion of college certificates, diplomas, and associate degrees that lead to college transfer or provide entry-level job and/or career skills. Academic credits earned through Career and College Promise shall enable students who continue into postsecondary education, after graduating from high school, to complete a postsecondary credential in less time than would normally be required.

A-B Tech offers three types of Career and College Promise pathways: College Transfer Pathways, Career Technical Education Pathways, and Cooperative-Innovative High School Programs.

College Transfer Pathways include at least 30 semester hours of transfer courses, including English and mathematics, that are available to qualified junior and senior high school students.

Career Technical Education Pathways lead to a certificate or diploma aligned with a high school career cluster. These pathways are designed for accelerated high school juniors and seniors who are ready to get a head start on career and technical courses that will lead to a career. Cooperative-Innovative High Schools are designed for motivated students looking for a nontraditional high school experience. These small high schools partner with A-B Tech to provide local students with a comprehensive and accessible education.

A-B Tech is affiliated with five cooperative-innovative high schools, two that are early colleges, one that is a middle college, one that is a school-within-a-school, and one that is a Science, Technology, Engineering, and Math (STEM)-focused school.

Early colleges, statewide, are rigorous programs in which students can earn a high school diploma and associate degree simultaneously. Early college students start in the ninth grade, and can complete the program in five years. A-B Tech has two partner early colleges:

- Buncombe County Early College, located on the main campus of A-B Tech in Asheville.
- Madison Early College High School, located in Mars Hill.

Buncombe County Middle College (BCMC), the School of Inquiry and Life Sciences at Asheville (SILSA), and the Martin L. Nesbitt Jr. Discovery Academy are also a cooperative-innovative high schools. BCMC is located on the main A-B Tech campus in Asheville. It provides juniors and seniors with a non-traditional setting for completing a high school diploma and earning college credits. SILSA is a four-year high school that is located on the campus of Asheville High School, and the STEM-themed Discovery Academy is located at the Buncombe County Board of Education Building. For more information, contact advisors at 398-7516, 398-7144, 398-7484, 398-7720 or ccp@abtech.edu.

New Student Orientation

In order to make the A-B Tech experience as successful as possible, most incoming curriculum students are required to complete New Student Orientation (NSO). Students can complete the New Student Orientation either in a classroom setting or online. The program will include all necessary tools and resources to help ensure student success. Students can schedule their orientation at abtech.edu/nso. New Student Orientation must be completed before registering for classes. Degree completers and visiting students from another institution are waived from this and will receive a new student resource guide via email.

Selective and Limited Admission Programs

Due to the high volume of applicants, limited number of available seats, and clinical/resource/lab space availability, certain programs may be designated as selective or limited. These programs typically reside in the Allied Health or Business and Hospitality Education Divisions and may include the following:

- Associate Degree Nursing
- LPN to ADN Advanced Placement Option
- Brewing, Distillation, and Fermentation
- Cosmetology
- Dental Assisting
- Dental Hygiene
- Emergency Medical Science
- · Esthetics Technology
- · Manicuring/Nail Technology
- Medical Assisting
- · Medical Laboratory Technology
- Medical Sonography
- Occupational Therapy Assistant
- Pharmacy Technology
- Phlebotomy
- Radiography
- Surgical Technology
- Veterinary Medical Technology

These programs have separate application periods and specific admission requirements and procedures. Those interested should contact a Pre-Program Advisor in the K. Ray Bailey Student Services Center or by email at AGEAdvising@abtech.edu for specific instructions and application procedures. Distance services are available for students living outside of Buncombe County or its adjacent counties by contacting AGEAdvising@abtech.edu

Overview of Placement and Assessment of College Readiness

The purpose of placement and assessment is to match the academic readiness of incoming students with academic requirements of the curriculum. Incoming students for all degree and diploma programs are required to provide evidence of college readiness using one of the approved methods listed below. Unclassified students (those not enrolled in a degree or diploma program) are also required to provide evidence of college readiness if they desire to take a mathematics or English course, or any course for which math or English are prerequisites. Students are required to take the courses into which they place.

Options available to assess college readiness include the following:

- Placement using unweighted high school GPA of 2.2 or higher. High school graduation must be within past ten years and an official high school transcript must be submitted.
- Placement using the NROC EdReady, offered at A-B Tech's Testing Center. Due to the length of the assessment, students are encouraged (but not required) to take the math and English assessments in separate sessions.
- Placement using the submission of college-ready scores from one or more of the following alternate assessments (please note that scores below college-ready benchmarks will not be accepted): SAT; ACT; Accuplacer; ASSET; COMPASS. Official copies of test scores within the last ten years must be submitted.
- Placement using transfer credit from a regionally accredited institution for college-level English (Expository Writing equivalency) or mathematics (Statistics, Quantitative Literacy, or Pre-calculus equivalency). Official transcripts and a grade of "C" or higher are required.
- Placement using successful completion of MAT 003 and ENG 002 transition courses from a North Carolina Community College. Official transcripts are required.

Students who have previously taken the NC-DAP assessment may be eligible to take the NROC EdReady. Students who did not place at college-level using NC-DAP and who have not yet completed MAT 003 and ENG 002 transition courses may be required to take the NROC EdReady assessment to determine appropriate placement.

Placement using A-B Tech course credit and transfer credit for English and math does not expire. Placement using RISE or via assessment scores are valid for a maximum of ten-years. After ten years, if math or English courses have not been completed successfully, a student is required to be re-assessed using one of the methods listed above.

Alternate testing formats are available to individuals with disabilities upon request to Support Services. Documentation of disability is required prior to the establishment of accommodations for placement testing. Students requesting accommodations should allow at least one week for arrangement of accommodations after submission of appropriate documentation.

Students submitting high school transcripts should submit them to: Admissions Office, 340 Victoria Rd., Asheville, NC 28801. College transcripts should be sent to: Records and Registration, A-B Tech Community College, 340 Victoria Rd, Asheville, NC 28801.

Students applying for admission to limited or selective enrollment programs should consult the program admissions information in the Admissions section of the College website at

abtech.edu/selective—limited-programs. This information is also available in the K. Ray Bailey Student Services Center or via email at AGEadvising@abtech.edu.

Assessment Preparation and Re-Testing

Assessment is a valuable tool in ensuring that students are enrolled in courses that support their success.

Lack of preparation for the assessment may result in additional cost and time for classes. Eligible students should fully prepare before taking NROC EdReady, the College's assessment tool.

To assist students in preparing, study materials for placement assessment review are available at www. abtech.edu/placement. Students will find sample questions and other preparation tools helpful in understanding test formats and content.

Eligible students may only take the NROC EdReady twice in a ten-year period (one initial test and one retest).

- Students who tested at local high schools may take the assessment once after high school graduation when applying for admission to the College.
- Students are eligible to retest on the NROC EdReady once per tier after initial assessment with the NROC EdReady. There must be at least a two-week window between initial assessment and re-testing.
- NROC EdReady scores submitted from other North Carolina Community Colleges will be treated as either an initial test or a re-test based on date of submission
 - the two-week waiting period applies to NROC
 EdReady scores submitted from other schools.
- Students will be allowed to take just the math and English sections of the NROC EdReady based on program of interest. Students may consult with their Program Advisor for program specific placement requirements.

NROC EdReady are valid for ten years, and students are not eligible for a second retest until the scores expire. Requests for exceptions will be granted only for extenuating circumstances and must be approved by the Director of Student Advising and Testing Services or the Vice President of Student Services.

Scheduling an Assessment

Students may schedule the NROC EdReady online at www.abtech.edu/placement. Students must present a picture I.D. to take the assessment. The NROC EdReady is available both day and evening hours and the results are provided to the student immediately after the student completes the assessment. Students are encouraged to meet with theirProgram Advisor in the Bailey Building for an explanation of assessment results and course placement.

A-B Tech ID Cards

A-B Tech Tech issues student ID cards to current students in the K. Ray Bailey Student Services Center. ID Cards can be produced with an unexpired application on file, class registration, and a current government-issued photo ID card (driver's license, passport, military ID).

After receiving an A-B Tech ID card, please take it to the Locke Library to be activated in the Library's database. With their library-activated photo ID card, students can check out materials, use the research computers, and access reserve items. Students must present the card each time they wish to check out library materials. The ID card must be presented in order to use college printing services.

Transfer Credit, Credit-by-Exam, Articulated Credit, CLEP and Advanced Placement Credit, Continuing Education and Licensure Credit

No more than 75% of credits required for a degree, diploma or certificate program may be awarded through alternative credit options listed in this section. To complete a degree, diploma or certificate program, the student must successfully complete 25% of the required credit hours for the respective program though A-B Tech curriculum coursework.

Transfer Credit from Other Institutions

Asheville-Buncombe Technical Community College will accept credit transfer from institutions recognized by a regional accrediting agency. A-B Tech will also consider transfer credit from non-regionally accredited institutions of higher education for only career and technical courses if the institution is accredited by an organization recognized by the Council for Higher Education Accreditation. Transcripts must be unopened and officially issued by the credit granting institution. Credit may be awarded for appropriate military courses. Students must submit a curriculum application before transfer credit is evaluated. Credit obtained outside the U.S. or any U.S. Territory must be evaluated by an educational credential evaluation service that is a member of the National Association of Credential Evaluation Services (NACES). Students should contact internationalinfo@abtech.edu for more information.

Only grades of "C" or better will be considered for transfer. College-level courses awarded the grade of "Pass" at another institution will only be transferred to A-B Tech if it is clear that the grade of "Pass" indicates a grade of C or better of if A-B Tech offers that particular course only as Pass/Fail. Credits will be evaluated in the context of the current catalog. The Office of Records and Registration in consultation with Department Chairs will determine the appropriate A-B Tech course credit to award. Some departments may require a skills assessment before transfer credit is awarded. In such cases the decision of the department is final.

Credit will be assigned without quality points and will not be calculated into the student's A-B Tech grade point average. If a transferred course is also taken at A-B Tech, the local grade will be calculated in the grade point average.

Credit by Examination (Proficiency Testing)

Students who can provide tangible evidence of preparation to challenge a course, such as a transcript of similar college-level credits, record of military study, certification or license, standardized test scores or written statements from employers regarding training or directly related work experience indicating that they may be proficient in a subject, may request credit by examination. A written request must be made to the appropriate department chairperson on a form obtained from the Office Records & Registration. This test must be administered immediately after the 10 percentage point of the class in the semester.

Examinations are comprehensive and must be approved by the supervisor of the instructor administering the exam. The examination may be oral, performance, written, or a combination of these methods. To receive credit by examination, the score must be above average ("A" or "B"). A grade of "A" or "B" will be posted on the transcript of the student who successfully completes the examination. The decision of the examining instructor is final.

No student may request a second test for Credit by Examination in the same course or request Credit by Examination in a course after receiving any recorded grade for that course. Exceptions must be approved by the Vice President of Instructional Services.

Procedure:

- Enroll as a credit student in the course to be challenged and pay tuition. There is no extra charge for full-time students who are taking at least 16 credit hours of non self-supporting coursework.
- Present evidence of proficiency, complete the written request form, and have the request approved prior to the 10 percent point of the semester (or 10 percent of the minimester session).
- Remain enrolled and attend class until the examination is administered. During this period, students who have written approval for the exam may attend class without purchasing textbooks and materials. If books are purchased and returned for refund, they must be in new condition.
- 4. Students who are very confident of passing the exam may request a course overload.
- 5. Students who perform on the exam at a level sufficient to get credit may leave the course and will be awarded a grade of "A" or "B" for the course. Receiving credit does not entitle the student to a tuition refund. Students who do not achieve an "A" or "B" on the proficiency exam are encouraged to remain in the class as a regular student.
- 6. Students who receive financial assistance of any type are required to inform the director of their assistance program that they are seeking credit by exam. Assistance may be reduced and reimbursement will be required if the course load is reduced by receiving credit by examination.

Any exceptions to these procedures must have prior written approval by the appropriate Department Chairperson, Division Dean, and the Vice President of Instructional Services.

Articulated Credit

College credit may be awarded for high school courses if conditions of the North Carolina High School to Community College Articulation Agreement or Regional Articulation in Career Education (RACE) are met. Students must see the Records and Registration office in the K. Ray Bailey Student Services Center.

Advanced Placement and CLEP Credit

Advanced Placement (AP) scores of 3 or higher will be used to grant college equivalent credit. CLEP scores of 50 or higher will be considered for awarding college credit.

Licensure and Certification Credit

A-B Tech awards curriculum credit for select licensure and certifications. Contact the office of Records and Registration for a list of the licensures and certification that are eligible for course credit.

Continuing Education

Continuing education credits may be considered for curriculum course equivalency. The Department Chairperson responsible for the respective course, or his/her designee, must approve the awarding of credit for continuing education coursework. Such approval will include a review of the continuing education work to ensure that course outcomes are met. The student must be enrolled in a program of study for which the respective course is included.

CR (equivalency credit) will be assigned for the curriculum course. The course will be used to satisfy requisites and applied toward completion of any and all programs containing the course. Continuing education credit may not be used once the respective curriculum course has been attempted at the College.

International Applicants

A-B Tech has been approved to issue I-20 forms for qualified international applicants seeking certain diplomas or associate degrees in F-1 or M-1 visa status. A-B Tech does not issue I-20 forms for continuing education programs, English Language Acquisition classes, or curriculum certificate programs. International applicants must show proficiency in the English language.

International applicants should submit all admission credentials together. The A-B Tech online application written international application, Test of English as a Foreign Language (TOEFL) scores, college transcripts and English translations (if interested in transfer credit), and affidavits of financial support with supporting documentation are all necessary for an admission decision. Applications must be received by the following deadlines for consideration: June 1 for Fall semester; October 1 for Spring semester; March 1 for Summer semester.

To demonstrate English proficiency, international applicants whose native language is not English must take the TOEFL or an equivalent assessment. The applicant must score at least 60 on the internet-based TOEFL(with no less than 15 on any section). Applicants already in the Asheville area may substitute the North Carolina Diagnostic Assessment and Placement Test.

International applicants must also certify their ability to pay for out-of-state tuition, fees, books, supplies, year of study. Medical insurance is not required at this time but is highly recommended for all international applicants.

transportation, and living expenses for at least one full

International applicants should contact the International Student Advisor in the K. Ray Bailey Student Services Center for further information about admission. Email inquiries should be addressed to: internationalinfo@abtech.edu.

Tuition and Expenses

North Carolina Residency

In order to qualify for the resident tuition rate, North Carolina law (G.S. 116-143.1) requires that a legal resident must have maintained domicile in North Carolina for at least the 12 months immediately prior to classification as a resident for tuition purposes. The student cannot qualify for in-state tuition if he or she is claimed as a dependent by a parent or guardian who is not a N.C. resident.

Proof of residency can include being employed within the state of North Carolina, paying NC taxes, having a current NC driver's license, and voting in NC.

A-B Tech uses a centralized process for residency determination known as the Residency Determination Service (RDS) at the direction of North Carolina law. All students are required to have a residency determination from RDS. It is the student's responsibility to provide documenting evidence of residency status to RDS.

NOTE: The out-of-state tuition rate is charged automatically to students who have not completed the RDS process.

To learn more about residency go to www.NCresidency.org.

* Tuition is subject to change by the state legislature.

abtech.edu

Student Activity Fees

The student activity fee of \$35 will be charged for students enrolled on the A-B Tech main campus during the fall and spring semesters.

Computer Use and Technology Fee

The State Board of Community Colleges has established a computer use and technology fee to support the procurement, operations and repair of computer and other instructional technology, including the supplies and materials that support the technology. This fee is set annually by the Board of Trustees and is \$48 per semester for curriculum students and \$5 per course for occupational continuing education classes.

Printing Fees

Students are allowed 100 black-and-white copies at no charge per semester. Additional black-and-white copies are \$0.08 per page. Color copies are charged at a rate of \$0.15 per page.

Consumable Supply Fee

Certain courses have additional fees attached to them to pay for consumable supplies not covered by tuition. Consumable fees for academic programs will vary by class.

Student Accident Insurance

A group policy, providing accident insurance protection, is maintained by the College and all curriculum and continuing education students are required to subscribe to such coverage. The only exception is for students taking only online courses. The cost of accident insurance to the student is a maximum of \$2.00 per semester.

Matriculation Fee

A \$6 Curriculum Matriculation fee will be charged to all curriculum students each semester, with the exception of Career and College Promise (CCP) students.

CAPS Fee

The Campus Access, Parking and Security fee is \$20 per semester for curriculum students and \$5 per course for Continuing Education Students.

Transcript Fee

\$5.00 Electronic Transcript (delivered by third party vendor)

\$7.50 Standard hard copy transcript (delivered by third party vendor)

\$27.50 Overnight Delivery (delivered by third party vendor)

\$10.00 On-demand transcript (A-B Tech walk-ins)

Rates vary depending on location for International delivery (delivered by third party vendor)

Additional Costs

Students should be prepared to incur additional estimated expenses during the academic year (two semesters and summer term) as follows:

Allied Health

| Alliou Houldi | |
|---|---------------|
| Books | \$900-1,900 |
| Supplies | \$200-1,000 |
| Arts and Sciences: A.A., A.E., A.S., A.F.A. | |
| Books | \$1,200-2,000 |
| Supplies | \$150-600 |
| Business and Hospitality Education | |
| Books | \$1,000-2,500 |
| Supplies | \$200-1,000 |
| Emergency Services | |
| Books | \$900-1,900 |
| Supplies | \$200-1,000 |
| Engineering and Applied Technology | |
| Books | \$700-1,000 |
| Supplies | \$200-1,100 |
| Academic Success and Public Service | |
| Books | \$1,000-1,500 |
| Supplies | \$200-1,000 |
| | |

The cost of books and supplies varies from year-to year by curriculum due to price changes, curriculum changes, and instructor preferences. For purposes of definition, the following items may be classified as supplies: pen, pencils, paper, notebooks, instruments, student kits, uniforms and shoes, rental of uniforms, safety equipment, hand tools, calculators, lab coats, membership dues, and pins. Students will incur most of the supply costs for their curriculum during the first semester of study. Students are encouraged to consult with their department chairperson for actual costs of supplies for their curriculum. Prior to the purchase of a calculator for use in class, students should consult with their instructor.

Tuition and Fee Refunds

The tuition policy is set by the State of North Carolina and is subject to change. A 100% refund shall be made if a student drops the class(es) in Self-Service or by visiting Student Services in the Bailey Building prior to the start-date of the class that is published on the student's schedule in Self-Service. For example, if a class's published start-date is August 20, the student must drop the class by 11:59 p.m. on August 19 to be eligible for a 100% refund, regardless of what date the class meets for the first time. Also, a student is eligible for a 100% refund if the class in which the student is registered is canceled.

A 75% refund shall be made if the student officially drops the class(es) prior to or on the official 10% point of the term. Insurance, technology, student activity, and curriculum matriculation fees are not refundable. Federal regulations, if different from above, will overrule this policy.

Students registered for more than 16 credit hours are not charged additional tuition for those credits. Therefore, only hours dropped below a total of 16 credit hours are eligible for a refund.

Tuition Refund Process

To be eligible for a tuition refund the student must:

- 1. Register and pay tuition and fees.
- 2. Officially drop the class on or before the 10% point of the term in one of the following ways:
 - a. By dropping the class online in Self-Service.
 - b. By having a Student Service Staff person process the drop. The student is responsible for ensuring this has been done by the appropriate deadline.

Financial Aid

The purpose of the financial aid program at Asheville-Buncombe Technical Community College is to provide financial assistance to students who would otherwise be unable to attend the College. The program is committed to the philosophy that no eligible student should be denied access to a higher education due to a lack of financial resources. Students who submit a FAFSA will be considered for grants, loans, scholarships, and student employment opportunities. Financial aid is generally awarded to students on the basis of need and academic merit. Students desiring financial aid for an academic year (August through May) are encouraged to apply early (January through March) to be given priority consideration for the funds available. It is important for students to know that it may take 2 to 3 weeks to process the application.

Application Procedure

In order to be considered for financial aid, a student must complete a Free Application for Federal Student Aid (FAFSA) online at www.fafsa.gov. Alternative accessible application formats will be made available to individuals with disabilities upon request to the ADA Coordinator or the Financial Aid Office.

Students will need an FSA ID to complete the FAFSA. The FSA ID may be created by visiting fsaid.ed.gov. When visiting the website, students will be given explicit instructions. Assistance is also provided by the Department of Education at 1-800-433-3243. TTY users (hearing impaired) may call 1-800-730-8913.

For Dependent students who must include parent information on the FAFSA, at least one parent must also apply for an FSA ID. Dependent students are required to have a parent sign the FAFSA. When visiting the website, students will be given explicit instructions. Assistance is also provided by the Department of Education at 1-800-433-3243. TTY users (hearing impaired) may call 1-800-730-8913.

The Financial Aid Office offers FAFSA assistance throughout the academic year. Students may schedule a FAFSA by Appointment session at abtech.edu/financial-aid.

If an applicant is a dependent student and therefore required to provide his or her parents' financial and personal information on the FAFSA, at least one parent must also apply for a PIN. Dependent students are required to have a parent sign the FAFSA. When visiting the website, students will be given explicit instructions. Assistance is also provided by the Department of Education at 1-800-433-3243. TTY users (hearing impaired) may call 1-800-730-8913.

There is a FAFSA worksheet that students may complete prior to completing the application online. Worksheets will be available at their local high school or college. They may also print the worksheet from the www.fafsa.gov website.

When students log in to www.fafsa.gov, they will be advised on the documentation they must have to complete the FAFSA. A complete and accurate application will prevent delays in processing their financial aid. When completing the FAFSA, students should use the IRS Data Retrieval Tool to import student and/or parent income tax return data directly from the IRS. The college code for A-B Tech is 004033.

Students should make sure they receive and retain a copy of the confirmation number when their FAFSA is submitted. After the Department of Education processes the application, an electronic file will be transmitted to the A-B Tech Financial Aid Office for processing.

Additionally, when the FAFSA is processed, the student will receive the Student Aid Report (SAR) by email or a hard copy of the report may be mailed.

It is important for students seeking financial aid to complete the A-B Tech enrollment process and be admitted into a financial aid eligible academic program.

All correspondence from the Financial Aid Office is sent to students via their A-B Tech student email account. All students who apply to A-B Tech are automatically assigned a student email account.

Information regarding how to access the student email account can be found online at abtech.edu. It is the student's responsibility to check their student email regularly for information regarding missing financial aid documentation, class information, registration, billing status, etc.

After the financial aid file is completely processed, students can go to their WebAdvisor account to view their award letter, which displays how much and what types of financial aid they will receive. It is important for students to remember that the award letter is based on a full-time enrollment status. Financial aid awards will be adjusted for all students who are enrolled in a less than full-time enrollment status. Students can access their WebAdvisor account from the A-B Tech website at abtech.edu.

Visit abtech.edu to find all of the web links mentioned above, as well as other helpful resources. Computers are available for student use in the K. Ray Bailey Student Services Center.

Students seeking additional information about financial aid at A-B Tech are urged to contact the Financial Aid Office in the K. Ray Bailey Student Services Center.

Important Pell Grant Information: Eligible students may receive the Pell Grant for the equivalency of 12 full-time semesters, or 600%, per federal regulations.

Types of Financial Aid Processed by the Financial Aid Office:

- Pell Grant (Maximum eligibility: the equivalency of 12 full-time semesters or 600%)
- Federal Supplemental Educational Opportunity Grant
- William D. Ford Federal Direct Loan Program*
- Federal Work Study Program
- North Carolina Community College Grant*
 (Not awarded during the summer semester).
 Students must be enrolled in at least 15 credit hours to receive the full award amount.
- North Carolina Education Lottery Scholarship* (Not awarded during the summer semester)
- A-B Tech Foundation Scholarships
- A-B Tech Enrollment Scholarships

Anticipated Financial Aid Disbursement Dates:

- Fall Semester-Late September
- Spring Semester-Late February
- Summer Semester-Mid June

BankMobile

A-B Tech has partnered with BankMobile to disburse financial aid and tuition refunds. After students have registered for classes, a Refund Selection Kit will be mailed in a green envelope. All students will be provided two options to receive their disbursement through BankMobile. More information can be found on the Financial Aid Office website.

Financial Aid Satisfactory Academic Progress (FASAP) Policy

According to federal regulations, students receiving financial aid must maintain Financial Aid Satisfactory Academic Progress (FASAP). The Financial Aid Office at Asheville-Buncombe Technical Community College monitors a student's academic progress as a condition of eligibility when the student applies for financial aid and at the end of each Spring Semester. These requirements are applied to a student's entire academic history at A-B Tech, including transfer hours from other schools that apply to the student's program and including periods when financial aid was not received (e.g. courses taken through A-B Tech in high school). A student is considered to be making Financial Aid Satisfactory Academic Progress when the following three requirements are satisfied:

- 1. **Qualitative Standard (Cumulative Grade Point Average)** A student must maintain a minimum cumulative grade point average of 2.0.
- 2. Quantitative Standard (Completion Rate) A student must maintain a minimum cumulative completion rate of 50% between 1-29 completed hours. A student must maintain a minimum cumulative completion rate of 67% with 30+ completed hours.
- 3. Maximum Timeframe A student must successfully complete the program of study within its timeframe. Federal regulations specify that the timeframe may not exceed 150% of the published length of the program. When students exceed the timeframe for their programs of study, they are no longer eligible to receive financial aid. However, students can submit an appeal to the Financial Aid Appeals Committee to have their eligibility extended if there are extenuating circumstances.

Monitoring Financial Aid Satisfactory Academic Progress. A-B Tech will monitor Financial Aid Satisfactory Academic Progress using the chart below.

| Credit Hours Attempted* | Minimum Cu- mulative Com- pletion Rate** | Minimum Cu- mulative GPA Required*** |
|----------------------------|--|--|
| 1-29 | 50% | 2.0 |
| 30+ | 67% | 2.0 |

^{*} Students must be enrolled in a minimum of 6 inprogram credit hours as part of the eligibility requirements for these awards.

FASAP Status

Financial Aid Satisfactory Academic Progress statuses will be calculated based on the definitions listed below. Students will be notified of their status at the end of each payment period (year) or when they first apply for financial aid. This notification will be sent to their student email account.

Calculations will only be made once per year, following the Spring Semester.

- Satisfactory: Satisfactory status is achieved when the cumulative GPA, completion rate and timeframe are met.
- 2. **Suspension:** Students who fail to meet any or all of the three Financial Aid Satisfactory Academic Progress requirements are placed on suspension. Students who are placed on suspension forfeit their financial aid. A student may either appeal to have their financial aid eligibility reinstated, or may notify the Financial Aid Office when the student is meeting the Financial Aid Satisfactory Academic Progress policy for students receiving financial aid so that their financial aid eligibility can be reconsidered.
- 3. **Maximum Timeframe:** A student must successfully complete the program of study within its timeframe. Federal regulations specify that the timeframe may not exceed 150% of the published length of the program. When students exceed the timeframe for their programs of study, they are no longer eligible to receive financial aid unless an appeal is upheld.

Appeal Process: Students who are not meeting the Financial Aid Satisfactory Academic Progress (FASAP) policy may appeal for reinstatement of financial aid eligibility. If an appeal is approved, the suspended student is placed on probation. A successful appeal will be accompanied by documentation that supports all unsuccessful terms that appear on a student's transcript. All appeals will be reviewed, approved, and/or denied by the Financial Aid Appeals Committee. An appeal can only be submitted if a student's failure to make Financial Aid Satisfactory Academic Progress is based upon events beyond their control. Applicable circumstances would include medical issues, family death/illnesses, and any other uncontrollable events. Students will need to submit the Financial Aid Satisfactory Academic Progress Appeal form to the Financial Aid Office before the start of their next semester. Upon referral student will work with Support Services to develop a support plan to be followed until such designated time. Students will be notified by email of the committee's decision. Appeals are ONLY reviewed in between semesters. Students must bring their academic progress back into compliance or have an appeal approved to have aid reinstated. It is important for students

to remember that Pell Life-Time Eligibility Used,

Undergraduate Loan Limits, and Termination status cannot be appealed.

Probation: Probation occurs when students on suspension have their eligibility for financial aid reinstated by an approved Financial Aid Satisfactory Academic Progress Appeal. A student in the status of probation will have their financial aid eligibility reinstated for one more payment period (semester). A student on probation may not receive aid for the subsequent payment period unless:

- 1. The student is now meeting the Financial Aid Satisfactory Academic Progress policy at the end of the probation period (semester); or
- 2. The student adheres to the financial aid student support plan. The plan may include one or more of the following stipulations:
 - · Limiting the number of credit hours attempted
 - · Not withdrawing from any courses
 - Repeat failed courses

*Students may appeal the conditions of their probation due to exceptional circumstances. These appeals must be made prior to the end of the probation period to be considered. These appeals may not be considered after the next SAP calculation has been made.

Continued Probation: Students who fail to meet the Financial Aid Satisfactory Academic Progress requirements, but have met the requirements of the financial aid student support plan will be placed on continued probation at the end of each semester. Students in the status of continued probation may remain eligible for financial aid until they complete their program of study. After the student has completed the program of study, the financial aid student academic plan is no longer applicable for receiving additional financial aid.

Terminated: Students who fail to meet the terms of their probation for any reason will be terminated. Students in this status will not qualify for aid until they are meeting the Financial Aid Satisfactory Academic Progress (FASAP) standards. This can be accomplished by paying for classes and completing them, and bringing cumulative completion rate and cumulative GPA in to the required percentages while staying within the timeframe of the program. There is no appeal for terminated students.

Key points to remember regarding the FASAP policy and maximum timeframe

Since the timeframe sets the limit for the number of credit hours a student may attempt and remain eligible to receive financial aid, it is very important that the student plan class schedules carefully with his or her academic advisor and/or the Student Services Advising staff. It is the responsibility of

the student to register only for classes listed in his or her chosen program of study and for scheduling only the number of hours he or she is capable of completing. **SOME STUDENTS WILL BE REQUIRED** TO TAKE PROVISIONAL (DEVELOPMENTAL) COURSES, WHICH WILL ALSO BE COUNTED AS **HOURS ATTEMPTED.** Students are responsible for knowing the policy concerning the limitation on hours attempted for financial aid purposes. Registering for more courses than a student is capable of completing, having to withdraw from classes, registering for courses for which the student has already received credit, taking courses in error, etc. All impact the timeframe and could result in losing financial aid eligibility before completing a program of study.

The timeframe is cumulative; therefore, by switching programs without completing the initial program, the student runs the risk of losing financial aid eligibility.

The timeframe begins when the student first attends the College and continues until that student successfully completes a program of study regardless of the number of years that may elapse between enrollment periods.

Only students who successfully complete a program of study will have attempted and completed credit hours from earning a degree, diploma, or certificate deducted from the maximum timeframe calculation for the next program of study.

*Students may only complete two programs of study within a five-year period receiving financial aid (the five year period will be considered from the time a degree is completed). This rule may not be appealed. All programs of study, with exception of GOT A.A.S., completed more than five years from the time of initial degree completed can be subtracted from the calculation.

Students who take course work in a financial aid ineligible program of study will have those hours attempted added to their timeframe if and when they enter a financial aid eligible program of study.

Students accepted into a program of study who are required to take developmental course work, as determined by placement assessment results, will have the credit hours attempted for such course work count toward their maximum timeframe. (Financial aid can only pay for 30 credit hours of developmental course work.)

The credit hours for course incompletes, withdrawals, and repetitions will be counted as hours attempted toward the timeframe.

Credit hours transferred from other institutions of higher education will be counted toward the maximum timeframe of eligibility only if they count towards the current program of study. Prior degrees earned will be taken into consideration when determining transfer hours.

Students who wish to double major (attempt two programs of study at once) may appeal to the Financial Aid Office to do so. The Financial Aid Office will determine an adequate timeframe for the multiple programs.

*Students may only complete two programs of study within a five-year period receiving financial aid (the five year period will be considered from the time a degree is completed). This rule may not be appealed.

Credit hours attempted will be cumulative and will include all hours for which the student was enrolled as of the 10 percent point (the point at which a student cannot drop a course for a partial refund, and must receive a W grade) of each academic term, or for which the student received a grade. The census date is defined as the 10 percent point of a semester. Students have the right to drop courses during this period.

Credit hours completed with grades of A, B, C, D, T, TR, CR, P, or AP only will fulfill this requirement. Grades of F, R, I, W, IE, WE and Y will not fulfill this requirement.

Cumulative GPA is calculated by dividing the total number of quality points earned by the total credit hours attempted for which the student received grades of A, B, C, D, F, P, R, and U.

The second quantitative standard, referred to as the maximum timeframe, will be measured independently of the monitoring chart. For each program of study, a maximum timeframe will be calculated by taking the total credit hours required for the program of study as outlined in the College catalog and multiplying the total by 150 percent. Timeframes will vary from program to program.

All classes taken at A-B Tech that appear on the College curriculum transcript are included in FASAP calculations (this includes courses taken through Early College, Middle College, and/or High School Dual Enrollment).

Transfer courses may be deducted from the calculation if they do not count towards the program of study, however, courses cannot be deducted if they are considered a prerequisite for a course in the program.

If at any point it is determined that a student cannot complete their program of study within the maximum timeframe, the student's aid will be suspended.

Federal Return of Title IV Funds Policy; Financial Aid for Students Who Withdraw or Drop Out. The Higher Education Act of 1965, as amended Oct. 1, 1998 allows institutions participating in any Title IV program (e.g. Pell Grant, Direct Loan Program etc.) to implement the policy and make a "good faith effort" to enforce it prior to the writing of the final regulations, which became effective on October 7, 2000.

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The law focuses on the return of Title IV Funds received for the semester the student was enrolled if that student completely withdraws or partially withdraws (terms with modules) from the College prior to the 60 percent point of the semester.

If a student withdraws after the 60 percent point of the semester or minimester, the student will be considered to have earned all funds disbursed and no return of funds will be required unless a student had received a loan that was subject to repayment under the terms of the loan.

Any student who decides to completely withdraw, or stop attending classes at the College prior to the 60 percent point of the semester and who has been disbursed Title IV funds may be required to repay a portion of those funds to the Department of Education and/or the College based on the federal calculation.

Scholarships and Other Financial Aid Information

A-B Tech offers a variety of enrollment and foundation scholarships each academic year. There are eligibility requirements for these scholarships. Students should visit the page for details on the types of scholarships offered and instructions for applying. Students are also encouraged to seek out scholarships offered by clubs and organizations in their communities.

- Early March: Students should have the Free Application for Federal Student Aid (FAFSA) at www.fafsa. gov completed.
- Early January: Students may apply for Enrollment and Foundation scholarships.
- Late March: Online application for Foundation scholarships will close.
- Late May/early June: Scholarship notifications are sent to students via email.

Students may access scholarship criteria on the financial aid website.

Recommended Sites

- www.finaid.org: Students can access FASTWEB, which contains a database of more than 180,000 scholarships.
- www.ncseaa.edu: Scholarships are available to North Carolina residents through the North Carolina State Education Assistance Authority.
- www.cfnc.org: Provides students with information about scholarships, loans, and other programs.
- www.nasfaa.org: Parents and students can find an assortment of information about financial aid.
- www.studentloans.gov: Students can find a significant amount of information pertaining to the William D. Ford Federal Direct Loan Program.

Education Tax Credits

Community college students are eligible to receive education tax credits that can reduce the expense of their education. The credits are based on education expenses paid for them, their spouse, or their dependents.

American Opportunity Credit

Under the American Recovery and Reinvestment Act (ARRA), more parents and students qualify for a tax credit, the American opportunity credit, to pay for college expenses.

The full credit is available to individuals whose modified adjusted gross income is \$80,000 or less, or \$160,000 or less for married couples filing a joint return. The credit is phased out for taxpayers with incomes above these levels. These income limits are higher than under the prior Hope and existing lifetime learning credit. Many of those eligible qualify for the maximum annual credit of \$2,500 per student.

The Lifetime Learning Tax Credit

The lifetime learning credit helps parents and students pay for post-secondary education.

For the tax year, you may be able to claim a lifetime learning credit of up to \$2,000 for qualified education expenses paid for all students enrolled in eligible educational institutions. There is no limit on the number of years the lifetime learning credit can be claimed for each student. However, a taxpayer cannot claim both the American opportunity credit and lifetime learning credits for the same student in one year. Thus, the lifetime learning credit may be particularly helpful to graduate students, students who are only taking one course and those who are not pursuing a degree.

This is provided for informational purposes only. For detailed tax information, please consult a tax advisor. Information is also available at http://www.irs.gov/Credits-&-Deductions

Contact Information:
Financial Aid Office
340 Victoria Road
Asheville, NC 28803
828-398-7900 (office)
FinancialAidOffice@abtech.edu
www.abtech.edu/financial-aid

Scholarships

A-B Tech offers a variety of enrollment scholarships each year. There are certain requirements for these scholarships. Students should check with the Financial Aid Office at 398-7162 for an application and additional information regarding these scholarships.

All students are encouraged to seek out scholarships offered by clubs and organizations in their communities.

An excellent source for scholarships is located on the World Wide Web. Students can visit www.finaid. org and use the free scholarship search, FASTWEB. FASTWEB alone contains a database of more than 180,000 scholarships. The website of the North Carolina State Education Assistance Authority (www.ncseaa.edu) lists scholarships available to North Carolina residents only.

The Asheville-Buncombe Technical Community College Foundation

The Asheville-Buncombe Technical Community College Foundation awards scholarships annually.

January 7 – Online applications are available at www. abtech.edu/scholarships.

March 15 – Students applying for scholarships requiring the establishment of financial need should complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov.

March 29 – Online application for scholarships closes and all reference forms must be submitted by 5 p.m.

June 3 – Scholarship awards sent to students via email.

For additional information about the Foundation, please call 398-7562.

Other financial aid information

In addition to scholarships, information about grants, loans and work programs are also available on the internet. Some recommended sites are: www.ed.gov

www.cfnc.org, Provides comprehensive information about scholarships, loans, and other programs/issues. www.nasfaa.org, Click on "Students, Parents & Counselors".

www.studentloans.gov, Federal student loans

Veterans' Educational Benefits

The Veterans' Coordinator helps incoming veterans process their requests for benefits. The Veterans' Office is located in the K. Ray Bailey Student Services Center. Individuals applying for veteran's benefits must meet all entrance requirements and are required to meet the College's Standards of Academic Progress as they progress through their programs. In addition, the VA requires that the student provide transcripts from all prior education, including high school and any other colleges. Failure to meet these standards will result in loss of veteran's educational benefits. For more information, the Veterans' Coordinator can be reached at veteranservices@abtech.edu.

Student Rights and Responsibilities

A-B Tech is fully committed to providing a learning environment that is safe, nurturing, and free from prohibited discrimination. While academic advisors, deans, instructors, administrators, and other College officials assist students in becoming acquainted with College regulations, including rights and responsibilities; ultimately, students must assume final responsibility for being acquainted with College policy and procedures. A-B Tech recognizes the rights of students and is dedicated to resolving student complaints in a timely, fair, and reasonable manner as outlined in this section of the catalog. Any student, including those participating in online/distance courses and high school dual enrollment courses offered at any A-B Tech site may file a complaint and request a review. Students unable to attend hearings in person may request electronic options throughout the respective appeal process. For the most upto-date version of College policies and procedures, please visit abtech.edu.

Non-Discrimination and Harassment Policy

It is the policy of the A-B Tech Board of Trustees that the College is fully committed to providing a learning and work environment that is free from prohibited discrimination. The College does not practice or condone discrimination or harassment based on race, color, national origin, religion, sex, sexual orientation, gender identity or expression, pregnancy, disability, genetic information/medical history, age, political affiliation or veterans' status in the administration of any of its academic programs and employment practices.

Inquiries or complaints concerning possible discrimination or harassment should be referred to the following offices:

Discrimination and harassment for students, please contact:

Office of the Vice President for Student Services 340 Victoria Road, Asheville, NC 28801, (828) 398-7146

Sexual Misconduct for students (including discrimination or harassment related to sex, sexual orientation, gender identity or expression, or pregnancy), please contact:

Director of Title IX Compliance

340 Victoria Road, Asheville, NC 28801, (828) 398-7932

Discrimination and harassment for employee (including Sexual Misconduct), please contact:

Office of the Executive Director for Human Resources 340 Victoria Road, Asheville, NC 28801, (828) 398-7178

For more specific information, related to Sexual Misconduct (both student and employee), refer to Sexual Misconduct Policy and Procedures #112.

Non-Discrimination and Harassment Procedure

Non-Discrimination Statement

The A-B Tech Board of Trustees and administration are fully committed to encouraging and sustaining a learning and work environment that is free from prohibited discrimination. The College does not practice or condone discrimination based on race, color, national origin, religion, sex, sexual orientation, gender identity or expression, pregnancy, disability, genetic information/medical history, age, political affiliation or veterans' status in the administration of any of its academic programs and employment practices.

For allegations of discrimination or harassment related to sex, sexual orientation, gender identity or expression, or pregnancy, please refer to the Sexual Misconduct Policy and Procedure #112.

Statements of Prohibition Prohibition of Retaliation

The College strictly prohibits punishing students or employees for asserting their rights to be free from discrimination or harassment. Retaliation against any person participating in connection with a complaint of discrimination or harassment is strictly prohibited. Reports of retaliation will be addressed through this procedure and/or other applicable College procedures. Retaliation includes, but is not limited to, any form of intimidation, punitive actions from authority figure or peers, reprisal (acts of vengeance) or harassment. Retaliation is a serious violation and should be reported immediately. The College will take appropriate disciplinary action against any employee or student found to have retaliated against another.

Prohibition of Providing False Information

Any individual who knowingly files a false report or complaint, who knowingly provides false information to College officials, or who intentionally misleads College officials involved in the investigation or resolution of a complaint may be subject to disciplinary action including, but not limited to expulsion or employment termination. The College recognizes that an allegation made in good faith will not be considered false when the evidence does not confirm the allegation(s) of discrimination or harassment.

Individuals Requesting Accommodations Students

Students with disabilities (as defined in the Americans with Disabilities Act of 1990, "ADA") wishing to make a request for reasonable accommodations, auxiliary communication aids or services, or materials in alternative accessible formats should contact Support Services in the K. Ray Bailey Student Services Center. Support Services can be reached at (828) 398-7581

or email supportservices@abtech.edu. Information provided by students is voluntary and strict confidentiality is maintained. A-B Tech is invested in full compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act.

Employees

A-B Tech understands that most employees with disabilities, medical conditions, or serious illnesses benefit greatly from the normal routines of daily life. When such an employee is able to meet approved standards of job performance as outlined by the College, and the medical information indicates that the disability or condition does not endanger the employee, other employees, students, or the public, he or she must be treated fairly and consistently with and by other employees.

If an employee has a disability, medical condition, or serious disease, he or she should notify the College if it could adversely affect the health or safety of other employees or students, impair the employee's ability to safely and effectively perform their job, or the employee would like the College to consider a reasonable accommodation for a disability.

All medical information will be maintained in a separate benefits/medical file in the Human Resources Department. Access to the benefits/medical records and related discussions will be strictly limited to those with a legitimate need to know this information and/or those with legal authority for access to them.

Consistent with the College's policy, A-B Tech will provide a reasonable accommodation for qualified applicants and employees with disabilities in accordance with the Americans with Disabilities Act (ADA), as amended, unless such accommodation would cause an undue hardship for the College. For the purpose of this policy, disability, reasonable accommodation, and undue hardship will be defined in accordance with the ADA.

A-B Tech will also provide a reasonable accommodation of an employee's religious beliefs/ practices provided such expression/practice does not create a hostile work environment for other employees and/or the accommodation does not cause an undue hardship for the College.

Confidentiality

Standards of Confidentiality

The College will respect and make every reasonable effort to preserve the confidentiality of the information and identities shared by the parties involved in an alleged discrimination or harassment matter. College administrators will, however, share information regarding an alleged incident, as appropriate and necessary, in order to address and resolve the allegation. In cases where the Complainant or reporting party requests confidentiality and the circumstances allow the College to honor that request, the College will offer interim support and remedies to the Complainant but will not otherwise pursue formal action against the Respondent. However, in cases

indicating pattern, predation, threat, weapons and/or violence, the College will likely be unable to honor a request for confidentiality. The College administrators will evaluate the following when determining if a report can remain confidential:

- the seriousness of the allegation;
- the alleged Complainant's age;
- whether there have been other complaints of discrimination or harassment against the Respondent; and
- the applicability of any laws mandating disclosure to local law enforcement.

Dissemination of information and/or written materials to persons not involved in the resolution process is not permitted. Violations of the privacy of the reporting party or the responding party may lead to disciplinary action by the College which could include expulsion or employment termination.

Confidential Resources

If a Complainant would like to speak confidentially with someone about the details of an incident, the Complainant may contact:

On campus - Student Resources

• Professional counselors in the K. Ray Bailey Student Services, Asheville Campus (and by appointment at all A-B Tech instructional sites). Students may schedule an appointment with a counselor by calling (828) 398-7900. A-B Tech Counselors will maintain confidentiality except in cases of imminent harm to self or others or in cases related to the abuse of a child, elder, or dependent adult. Counselors are available to help free of charge and can be seen on an emergency basis during normal business hours.

Off-campus - Student and Employee Resources

- Mobile Crisis Management Services 888-573-1006 (Community Counseling)
- Employee Assistance Network (EAN) 828-252-5725 (Support services for A-B Tech employees)

Reporting Options

Reporting to College Officials

- Vice President for Student Services Incidents solely between students may be referred directly to the Office of the Vice President.
 Vice President, Student Services
 Asheville Campus
 828-398-7146
 terrygbrasier@abtech.edu
 Online reporting: https://www.abtech.edu/incidentreport
- 2. Executive Director for Human Resources Incidents solely between employees may be referred directly to the Office for the Executive Director, Human Resources Asheville Campus 828-398-7178 shannarchambers@abtech.edu

- 3. Student/Employee Allegations For allegations between students and employees, you may contact either the Vice President for Student Services or the Executive Director for Human Resources. The Vice President for Student Services or designee will work in partnership with the Executive Director for Human Resources or designee to investigate and resolve the allegation.
- 4. A-B Tech Police The A-B Tech Police Department is located across from the parking deck in the Mission Health/A-B Tech Conference Center and can be reached by phone at (828) 398-7125. A-B Tech Police Officers are available 24-hours a day, seven days a week. To reach the on-duty officer, call (828) 279-3166.
- 5. Anonymous Reporting Individuals may also file anonymous reports by completing the report at https://www.abtech.edu/incidentreport. It may be very difficult for the College to take action on anonymous reports where supporting information is limited. Anonymous reports may be used for statistical reporting purposes.

Reporting to Local Law Enforcement

Individuals may report discrimination or harassment directly to local law enforcement agencies by dialing 911. Individuals who make a criminal allegation may also choose to pursue College disciplinary action simultaneously. A criminal investigation into the matter does not release the College from its obligation to conduct its own investigation. However, the College's investigation may be delayed temporarily while the criminal investigators are gathering evidence. In the event of such a delay, the College must take interim measures when necessary to protect the alleged Complainant and/or the College community.

Individuals may choose not to report alleged discrimination or harassment to law enforcement authorities. The College respects and supports individuals' decisions regarding reporting; nevertheless, the College may notify appropriate law enforcement authorities if required or warranted by the nature of the allegations.

Reporting Timeframe

Individuals filing discrimination or harassment complaints are urged to do so in writing as soon as possible and will be promptly and thoroughly investigated. Individuals should recognize that delays in reporting may impair the ability of College officials to investigate and respond.

Federal Statistical Reporting Obligations – Hate Crimes

Hate crimes that are reported pertain to crimes that manifest evidence that the Complainant was intentionally selected because of the Complainant's actual or perceived race, gender, religion, sexual orientation, gender identity, ethnicity, national origin or disability. Hate crimes include criminal homicide, sex offense, robbery, aggravated assault, burglary, motor vehicle theft, arson, larceny-theft, simple abtech.edu

assault, intimidation, and destruction/damage/ vandalism of property or any other crime involving personal injury.

According to the Jeanne Clery Act, all personally identifiable information is kept confidential, but statistical information must be shared with campus law enforcement. The information to be shared includes the date, the location of the incident and the crime category. This reporting protects the identity of the Complainant and may be done anonymously. The College's Annual Security Report helps to provide the community with a clear picture of the extent and nature of campus crime, in order to build community safety and awareness. To see a copy of the report, go to the College website under Consumer Information

Investigation Process

Investigative Timeline

The College will make every reasonable effort to ensure that the investigation and resolution of a complaint occurs in as timely and efficient a manner as possible. The College's investigation and resolution of a complaint will generally be completed within 60 calendar days of the receipt of the complaint, absent extenuating circumstances. Any party may request an extension of any deadline by providing a written request for an extension that includes reference to the duration of the proposed extension and the basis for the request.

Interim Measure

If at any point during the initial report, investigation, disciplinary, or appeal process the College administrator deems it necessary for the protection of any member of the College community, they may take actions such as the following for students:

- Temporarily suspend the Respondent for up to ten (10) College business days;
- Change the Respondent's and/or Complainant's class schedule;
- Take such steps as are reasonable, appropriate and necessary to restrict the Respondent's movement on campus.
- For employees, the College administrator may take the following actions:
- Take such steps as are reasonable, appropriate and necessary to restrict the Respondent's movement on campus;
- Request that the President place the Respondent on temporary paid administrative leave or reassign the Respondent to other duties.

Student Investigations

Initial Meeting - Complainant
 As soon as is practicable, the Vice President
 for Student Services or designee will contact
 the Complainant to schedule an initial meeting.
 During these initial meetings, the Vice President
 for Student Services or designee will:

- Work with student to stop and remedy the impact of the current situation;
- Implement safety measures as necessary;
- Conduct an initial investigation to retrieve all relevant facts related to the alleged discrimination or harassment. During this initial meeting, the Vice President for Student Services or designee will explain how the investigation will move forward.

The Vice President for Student Services or designee will evaluate the situation and determine if any additional remedies are needed.

2. Initial Meeting - Respondent

As soon as is practicable and after the initial meeting with the Complainant, the Vice President for Student Services or designee will contact the Respondent and schedule a meeting. At this meeting, the Vice President for Student Services or designee will, as applicable:

- Provide the Respondent details of the allegations being brought against him or her;
- Discuss with the Respondent, as applicable, any initial interim measures that were implemented as a result of the alleged discrimination or harassment;
- Work with Respondent to ensure that alleged actions of discrimination or harassment is immediately stopped and prevent future reoccurrence:
- Implement safety measures as necessary;
- Conduct an initial investigation to retrieve all relevant facts related to the alleged discrimination or harassment.

The Vice President for Student Services or designee will evaluate the situation and determine if any additional remedies are needed.

Employee Investigations

- Initial Meetings Complainant
 As soon as is practicable, the Executive Director
 for Human Resources or designee will contact
 the Complainant to schedule an initial meeting,
 and will proceed with an initial investigation to
 retrieve all relevant facts related to the alleged
 discrimination or harassment. During this initial
 meeting, the Executive Director for Human
 Resources or designee will explain how the
 investigation will move forward.
 The Executive Director for Human Resources or
 designee will evaluate the situation and determine
 if any additional remedies are needed.
- 2. Initial Meeting Respondent
 As soon as is practicable and after the initial
 meeting with the Complainant, the Executive
 Director for Human Resources or designee will
 contact the alleged Respondent to schedule
 an initial meeting. At this initial meeting the
 following resources may be discussed as
 applicable:

- Provide the Respondent, in writing, the alleged allegations being brought against him or her.
- Conduct an initial investigation to retrieve all relevant facts related to the alleged discrimination or harassment. During this initial meeting, the Executive Director for Human Resources or designee will explain how the investigation will move forward.
- Discuss with the Respondent, as appropriate, possible interim measures that can be provided to the Respondent pending the results of the investigative and resolution processes.

The Executive Director for Human Resources or designee will evaluate the situation and determine if any additional remedies are needed.

Student/Employee Investigation Process

All student/employee investigations will be handled jointly by the Vice President for Student Services and by the Executive Director for Human Resources. The investigation process will be determined by the role (student or employee) of the Respondent. If the Respondent is a student, the College will utilize the student investigation process. If the Respondent is an employee, the College will utilize the employee investigation process.

Recommendations and Hearing Students

After the investigation is complete, the Vice President for Student Services or designee will provide a recommendation letter to the Respondent which may include the following:

- Determination if the Respondent is responsible or not responsible for violating the Non-Discrimination or Harassment Policy.
- Sanction, if appropriate.
- Whether monitoring of academic schedules is needed between the parties to ensure that the individuals involved are not in classes together. The Vice President for Student Services or designee will assist in this process.
- Short-term College counseling services or training.

If the recommendation is accepted by the Respondent, the sanction(s) become effective immediately and the Respondent forgoes the option of a formal hearing.

If the recommendations of the Vice President for Student Services or designee are not accepted, the case will move to a formal hearing. The Vice President for Student Services or a designee will preside over the hearing. If the incident involves a College employee, the Executive Director for Human Resources or designee and the Vice President for Student Services shall preside jointly over the hearing (Presiding Officers). The process for the hearing is outlined below:

- Prior to the hearing, the Complainant and the Respondent have the right to review all relevant information, including written statements by the Respondent, the Complainant, or witnesses. Strict rules of evidence do not apply.
- Written notice including the date, time, and location of the hearing will be sent to all parties.
- At the hearing, all pertinent parties have a right to speak and be questioned by the Presiding Officers. Cross-examination between parties is not permitted. The College will provide options for questioning without confrontation. Each phase of the hearing will be heard by both parties in separate rooms by use of a speaker phone.
- The Complainant and the Respondent are allowed to be accompanied by an advocate. The advocate may not present on behalf of either party unless otherwise instructed to do so by the Presiding Officers. If the Complainant or the Respondent chooses to have an advocate who is an attorney, notification must be provided to either Presiding Officer at least three College business days prior to the hearing date. In this case, the College Attorney will also be present.
- Both parties will be notified of the hearing outcome.

Employees

The Human Resources representative will put forward a recommendation of finding and sanctions to both the Complainant and Respondent. If the recommendation is accepted by both parties involved, the recommendation and sanctions will become effective and both parties forgo the option of a formal hearing. A final outcome letter will be submitted to the Complainant and Respondent that may include, but not limited to, the following:

- Determination if the Respondent is responsible, not responsible, or if the decision is deemed inconclusive, or there is a finding of shared responsibility.
- Sanction, if appropriate.
- Monitoring of academic schedules or workplace schedules between the Complainant and the Respondent, if needed.
- Short-term counseling services will be offered to each party.

If the recommendations of the Human Resources representative are not accepted by either the Complainant or the Respondent, the case will move to a formal hearing. The Executive Director for Human Resources or designee will preside over the hearing as the Presiding Officer. The HR representative presiding over the hearing will be different from the HR representative who conducted the investigation. If either party is a student, the Vice President for Student Services or designee and the Executive Director for Human Resources or designee shall preside jointly over the hearing. The process for the hearing is outlined below: abtech.edu

- Prior to the hearing, the Complainant and the Respondent have the right to review all evidence, including written statements by the Respondent, the Complainant, or witnesses. Strict rules of evidence do not apply.
- Written notice including the date, time, and location of the hearing will be sent to all parties.
- At the hearing, all pertinent parties have a right to speak and be questioned by the Presiding Officers. Cross-examination between parties is not permitted. The College will provide options for questioning without confrontation; each phase of the hearing will be heard by both parties in separate rooms by use of a speaker phone.
- The Complainant and the Respondent are allowed to be accompanied by an advocate. The advocate may not present on behalf of either party unless otherwise instructed to do so by the Presiding Officers. If the Complainant or the Respondent chooses to have an advocate who is an attorney, notification must be provided to either Presiding Officer at least three College business days prior to the hearing date. In this case, the College Attorney will also be present.
- Both parties have a right to a written notice of the hearing outcome.

Sanctioning

The following sanctions may be imposed for those who have violated the Non-Discrimination and Harassment Policy:

Student Sanctions

- Verbal or Written Warning
- Probation
- Administrative withdrawal from a course without refund
- Required Counseling
- No Contact Directive
- Suspension
- Recommendation for Expulsion with automatic appeal to the President
- Other consequences deemed appropriate

Employee Sanctions

- Verbal or Written Warning
- Performance Improvement Plan
- Required Counseling
- Required Mediation
- Required Training or Education
- Recommendation of Demotion with automatic appeal to the President
- Recommendation to Suspend with or without Pay with automatic appeal to the President
- Recommendation for termination with automatic appeal to the President

• Other consequences deemed appropriate to the specific violation

Appeal Process

The Complainant or Respondent has a right to a final appeal to the President:

- Each party has the right to appeal the outcome of the hearing to the College President.
- Upon receipt of the hearing decision, both parties have five (5) College business days to submit a notice requesting an appeal. For students, this notice must be submitted in writing to the Office of the Vice President for Student Services. For employees, this notice must be submitted in writing to the Office of the Executive Director of Human Resources.
- If an appeal is requested, both parties will be notified.
- The President will conduct a document review which does not include a new hearing but shall consist of evidence presented at the hearing along with a recording of the proceeding.
- The President will affirm, modify, or reject the decision and/or sanctioning. The President's decision will be final and notification of the decision will be sent directly from the President's office to each party.

Records Retention

Records Retention for Students and Employees

- Students All documentation will be stored in the Vice President for Student Services' office for a period of seven years at which point the documentation will be moved to an electronic version to be retained permanently.
- Students In cases where the Respondent is found responsible for violating the Non-Discrimination and Harassment Policy, this information will be considered as a disciplinary record with the College.
- 3. Employees Personnel files are retained for 30 years. If the action taken is informal counseling, this does not become part of the permanent record.
- 4. Civil Rights files are maintained for a minimum of two (2) years.

Pursuant to Board Policy 111, this procedure must be followed when dealing with non-discrimination and harassment.

Privacy of Student Records

The Family Educational Rights and Privacy Act (FERPA) gives students the following rights with respect to their education records:

- 1. The right to inspect and review the student's education records within 45 days after the day A-B Tech receives a request for access. Any such requests should be submitted in writing to the Records and Registration Office, either by email to registrar@abtech.edu or by hand-delivering or mailing a letter to: Records and Registration, K. Ray Bailey Student Services Building, 340 Victoria Rd., Asheville, NC 28801. The written request must identify the record(s) the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, the Registrar shall advise the student of the correct official to whom the request should be addressed.
- 2. The right to request the amendment of the student's education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA. Any such requests should be submitted in writing to Records and Registration, either by email to registrar@abtech.edu or by hand-delivering or mailing a letter to: Records and Registration, K. Ray Bailey Student Services Building, 340 Victoria Rd., Asheville, NC 28801. The written request must identify the part(s) of the record the student wants changed, and specify why it should be changed. If A-B Tech decides not to amend the record as requested, A-B Tech will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- 3. The right to provide written consent before A-B Tech discloses personally-identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.
- 4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by A-B Tech to comply with the requirements of FERPA.

As a general rule, a student's parents/guardians do not have access to a student's education records. When a student turns 18 years old or enrolls at an institution of postsecondary education (such as A-B Tech), a student's rights under FERPA transfer from the parent to the student. In order for parents to have access to a student's education records, beyond Directory Information and without written permission from the student, a parent must certify that the student is economically dependent as defined in Section 152 of the Internal Revenue Code of 1986. If a parent can prove dependency to the Records and Registration Office by showing a copy of the parent's most recent tax return or other acceptable documentation, then the parent may have full access to the student's education records. Catalog 2020-2021

Directory Information

In compliance with FERPA, A-B Tech will not disclose a student's education records without his or her consent except as otherwise stipulated herein.

Directory Information will be released to anyone who requests it, and Limited Directory Information will be released under specific conditions, unless the student requests in writing to the Records and Registration Office that his or her Directory Information be withheld. In such case, no Directory Information or Limited Directory Information will be released.

Directory Information is information contained in a student's education record that would not generally be considered harmful or an invasion of privacy if disclosed. At A-B Tech, Directory Information includes:

- Name
- Major field of study
- · Dates of enrollment
- Enrollment status (full-time or part-time)
- · Degrees, honors, and awards received

Limited Directory Information is information contained in a student's education record that may only be disclosed under certain circumstances. This includes:

- Date of birth, which may be disclosed only as a means of verifying a student's identity when a College employee has no other means of doing so.
- Mailing address, telephone number, and email address, which may be disclosed only for educational purposes, at the discretion of College administration

Blocking the Release of Directory Information

A student may request that A-B Tech not release his or her Directory Information unless the student first provides written consent, except for the circumstances in which FERPA authorizes disclosure without student's consent. To request a block on the release of Directory Information, a student must submit their request in writing, either by submitting the "Request to Block the Release of Directory Information" form to the Records and Registration Office or emailing a written request to registrar@abtech.edu. Emailed requests must be sent from the student's official A-B Tech email account. A student's request to block the release of his or her Directory Information will remain in effect until the student requests that the block be removed.

A block on the release of a student's Directory Information will prevent the student's name and information from appearing in public directories, without the student's written consent, such as the Commencement Booklet, Dean's/President's lists, etc. In addition, a block will prevent A-B Tech from confirming a student's enrollment status, degrees, and abtech.edu

other Directory Information with third-parties such as prospective employers, unless the student first provides his or her written consent.

Disclosure Without Student Consent

FERPA permits the disclosure of personally-identifiable information from a student's education records, without consent of the student, only under limited circumstances. These circumstances include the release of education records to:

- A-B Tech officials who have legitimate educational interest in the records. A school official typically includes a person employed by A-B Tech in an administrative, supervisory, academic, research, or support staff position; a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or appeals committee. A school official also may include a volunteer or contractor outside of A-B Tech who performs an institutional service or function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of personally-identifiable information from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing their tasks. A school official typically has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for A-B Tech.
- Officials of another college or university in which the student seeks or intends to enroll.
- Officials of secondary schools in which the student is concurrently enrolled.
- Certain federal and state educational authorities for purposes of meeting legal requirements in federally supported educational programs.
- Persons involved in granting financial aid or scholarships for which the student has applied or received.
- Testing and research organizations conducting certain studies for or on behalf of the school.
- Accrediting organizations to carry out their accrediting functions.
- Individuals named in a court order or lawfully issued subpoena, but only after the student has been duly notified. The College will then comply in the absence of any legal order cancelling the subpoena.
- Parents/guardians, law enforcement, and first responders in very narrowly defined emergencies affecting the health and safety of the student or other persons.
- State and local authorities, within a juvenile justice system, pursuant to specific state law.
- Parents/guardians who have certified with the

Records and Registration Office that the student is economically dependent as defined in Section 152 of the Internal Revenue Code of 1986.

- The public, when the discloser is the final results of an institutional disciplinary proceeding regarding a crime of violence or "non-forcible sex offense" where the institution has determined that a policy violation occurred.
- The victim of an alleged crime of violence or a nonforcible sex offense when the disclosure is the final results of an institutional disciplinary proceeding regarding that offense, regardless of whether the institution determined that a policy violation occurred.
- Certain individuals, pursuant to the specific conditions outlined in FERPA, in connection with a disciplinary proceeding when the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and, with respect to the allegation made against him or her, the student has committed a violation of A-B Tech policy.
- Parents of students under the age of 21 regarding the student's violation of any Federal, State, or local law, or of any A-B Tech policy, governing the use or possession of alcohol or a controlled substance.
- Certain individuals when a student has been designated a sex offender or otherwise required to register under section 170101 of the Violent Crime Control and Law Enforcement Act of 1994.

Protection of Student Data

Safeguarding of personal information is a priority for A-B Tech. Great care is taken to protect all forms of sensitive data, including but not limited to personally identifying information. In addition to the FERPA requirements discussed in the previous section, the College continually strives to stay abreast of and adapt appropriately to changing expectations, guidelines and best practices, such as the Health Insurance Portability and Protection Act (HIPPA), the North Carolina Community College Institutional Information Processing System (IIPS) Security Manual, publications from the National Institute on Standards and Technology (NIST), the European Union's General Data Protection Regulation (GDPR), and the Gramm-Leach-Bliley Act (GLBA). Information on the College's current procedures and practices regarding data protection, identity management and authentication can be found in the Curriculum Distance Instruction Procedure (207.07) here, www.abtech.edu/online-distance-learning/curriculum-distance-instruction.

Student Complaints

A-B Tech recognizes the rights of students and is dedicated to resolving student complaints in a timely, fair, and reasonable manner. Any student, including those participating in online/distance courses and high school dual enrollment courses offered at any A-B

Tech site may file a complaint and request a review. Students unable to attend hearings in person may request electronic options throughout the respective appeal process. A-B Tech recognizes the following categories of written student complaints: Grade Appeals, Student Appeals, Discrimination and Harassment grievances, including Sexual Misconduct, and Code of Student Conduct Violation Appeals. As such, A-B Tech follows guidelines set forth in the Grade Appeals Policy and Procedure (see pages 49-50), the Student Appeals Policy and Procedure (see pages 51-52), the Non-Discrimination and Harassment Policy and Procedure (see pages 42), the Sexual Misconduct Policy and Procedure (see page 59), Code of Student Conduct Policy and Procedure (see page 53), and the Student Due Process Policy and Procedures (see page 58) when addressing student complaints. The College is committed to a prompt and fair resolution of any issues that arise between students and College employees and takes great care to ensure these policies and procedures are reviewed, updated and consistently followed when addressing student complaints.

A-B Tech is dedicated to resolving student complaints in a timely, fair, and amicable manner. A formal student complaint is a written request for a college action or decision to be reviewed to ensure compliance with College policies. A complaint may or may not be grade related. Any student, including those participating in online/distance courses, may file a complaint and request a review. For students attending A-B Tech who would like to file a formal written complaint, the College has two policies, one for Grade related complaints (Grade Appeals) and one for Non-Grade related complaints (Student Appeals).

Non-Discrimination and Harassment Policy: Inquiries or complaints concerning possible discrimination or harassment will be addressed via the Non-Discrimination and Harassment Policy.

Grade Appeals

- It is the responsibility of faculty and students to attempt, in good faith, to resolve disputes regarding course grades. If such discussions are unsuccessful, the student shall be entitled to initiate the grade appeals procedure if he or she has reason to believe that a course grade is inaccurate. At this time, a Grade Appeals Committee will be formed and a date and time set for a hearing.
- No student appealing any decision shall be subjected to harassment or intimidation or be in any way discouraged from filing an appeal pursuant to this procedure.
- At any stage of the appeal process, all parties shall have the right to be accompanied by an advocate of their choice. The advocate may not present the appeal or complaint on behalf of the

- student unless otherwise instructed to do so by the chair of the Grade Appeals Committee. If the student chooses to have an attorney present, the student must provide notification to the Vice President of Student Services at least three college business days prior to the scheduled hearing date.
- 4. If the student and/or faculty wishes to present documentation to be considered during the hearing, it should be submitted to the Vice President for Student Services or his/her designee no later than two business days prior to the scheduled hearing. Both the student and faculty will be given an opportunity to review all documentation submitted prior to the hearing.
- 5. The Vice President for Student Services shall monitor the handling of grade appeals through this procedure to ensure correct and prompt compliance by all parties.

Appeals Procedure Regarding Course Grades

- 1. Students are strongly encouraged to first discuss the course grade with the involved instructor as soon as possible.
- The student will submit the completed written grade appeal form, including all necessary faculty and student signatures, within three weeks from the day the final course grade is awarded. The form will clearly explain the student's complaint as well as the student's proposed resolution of the complaint. The instructor will be given the opportunity to read the student's written complaint and to meet with the student one more time. Alternately, the instructor may sign the appeal form indicating that he or she is unable to resolve the problem. The student will then be directed to the department chair of the instructor, who will meet separately with the student to attempt to resolve the issue. If the department chair is unable to resolve the issue with the student, then the department chair will sign the appeal form and direct the student to the Vice President for Student Services or his or her designee. Completion of the form by the instructor or chair does not in any way indicate agreement with the complaint. Each party may propose solutions to the disagreement that, if accepted by both parties, results in resolution of the appeal. If either party refuses to accept a proposed solution, then the matter is referred to the Vice President of Student Services who will convene a Grade Appeals Committee.
- 3. If the student has difficulty contacting the department chair, he or she should contact the Vice President for Student Services, who is responsible for assisting with contacts.
- 4. If the student and/or faculty wishes to present documentation to be considered during the hearing, it should be submitted to the Vice President for Student Services or his/her abtech.edu

- designee no later than two business days prior to the scheduled hearing. Both the student and faculty will be given an opportunity to review all documentation submitted prior to the hearing. The Vice President for Student Services shall maintain files of all course grade appeal forms submitted to his or her office. Such forms, together with other records indicating final action on a problem, shall be maintained for a minimum of five years.
- Students enrolled in distance courses may find it difficult to come to campus in order to pursue an appeal. In these instances, the process may be handled by telephone with the instructor involved, the department chair, and the Vice President for Student Services by mail, fax, or other agreed upon electronic means for submission of the appeals document. As with other appeals, the Vice President for Student Services will closely monitor the progress, ensuring the contacts are made in a timely fashion and documents are submitted properly. If it becomes necessary for an appeal to go to the Grade Appeals Committee, conference calling or any other electronic means agreed upon by both parties will be used. When conference calling is employed for a hearing, no business can be conducted without the student being present on the telephone, with the exception of the deliberations of the Committee in executive session.

The Grade Appeals Committee

Composition of the Grade Appeals Committee:

The Grade Appeals Committee will consist of no less than seven voting members and will be composed as follows to ensure the representation of all constituent groups in the College community.

- 1. Two student representatives
- 2. Two faculty representatives
- 3. One Student Services representative
- 4. One non-faculty employee, and
- 5. One non-teaching professional representative at the level of coordinator or higher who will serve as chairperson

Grade Appeals Committee Hearing and Procedures:

1. The Vice President for Student Services shall inform the instructor, the involved department chair, and the student of the date, time, and place of the appeals hearing. The Vice President for Student Services shall convene the Grade Appeals Committee no later than 15 college business days after receipt of the completed request, along with required signatures from both student and faculty, for a hearing.

- When an appeal is made by a student with a disability, the Committee, at its sole discretion, may consult with or include the Associate Director for Support Services in the hearing process for such person's knowledge of disability and Disability Services issues and requirements.
- 3. A quorum to conduct Committee business and vote is defined as a minimum of four members. In no case shall any business be conducted unless at least one student and one faculty member are present. There will be an audio recording of the appeal hearing.
- 4. The decision of the Grade Appeals Committee will be conveyed to the student and may be appealed within five business days to the Vice President for Instructional Services whose decision will be final. The Vice President's review does not include a new hearing, and his or her review shall consist of evidence presented at the hearing. The Vice President will affirm, modify or reject the decision of the Grade Appeals Committee.
- 5. In addition to the committee members, the following persons are permitted to attend the hearing:
 - a. Involved parties
 - b. An advocate for the appealing individual. The advocate may not present the appeal or complaint on behalf of the student unless otherwise instructed to do so by the chair of the Grade Appeals Committee. If the student chooses to have an attorney in attendance, the student must provide notification to the Vice President of Student Services at least three college business days prior to the scheduled hearing date.
 - c. The chair of the Grade Appeals Committee will manage all hearing proceedings, including the sequencing and time allocated for presentation of evidence by both student and faculty.
 - d. Administrative officers of the College who may be directly concerned with the dispute.
- 6. If a student fails to attend the scheduled hearing, the appeal is considered to be dropped.
- All steps of the appeal procedure for students shall be closed to the public, and all documents generated in the course of a complaint shall be confidential except to authorized College officials.

Availability of Information

The Grade Appeals Policy and Procedure are available on the College website.

Student Appeals

- a. It is the responsibility of all employees and students to attempt, in good faith, to resolve disputes regarding actions taken by College employees that are perceived to be unfair or unjust. If such discussions are unsuccessful, the student shall be entitled to initiate the appeals procedure. At this time, a Student Appeals Committee will be formed and a date and time set for a hearing.
- b. No student appealing any decision shall be subjected to harassment or intimidation or be in any way discouraged from filing an appeal pursuant to this procedure.
- c. At any stage of the appeal process, all parties shall have the right to be accompanied by an advocate of their choice. The advocate may not present the appeal or complaint on behalf of the student unless otherwise instructed to do so by the chair of the Student Appeals Committee. If the student chooses to have an attorney in attendance, the student must provide notification to the Vice President of Student Services or his or her designee at least three college business days prior to the scheduled hearing date.
- d. If the student and/or employee wishes to present documentation to be considered during the hearing, it should be submitted to the Vice President for Student Services or his/her designee no later than two business days prior to the scheduled hearing. Both the student and employee will be given an opportunity to review all documentation submitted prior to the hearing.
- e. The Vice President for Student Services or his or her designee shall monitor the handling of appeals through this procedure to ensure correct and prompt compliance by all parties.
- f. Please note this procedure applies to students wishing to appeal administrative action or decisions with exception to financial aid, code of student conduct sanctioning, grade appeals, and dismissal by a host clinical or other work-based learning site.

Appeal Procedure

- a. Students are strongly encouraged to first discuss the disputed matter with the involved employee as soon as possible.
- b. It is the responsibility of the student to complete and submit a written appeal form, including all necessary employee and student signatures, within six weeks of the date when the matter occurred. The form will clearly explain the student's complaint as well as the student's proposed resolution of the complaint. The employee will be given the opportunity to read the student's written complaint and to meet with the student one more time. Alternately, the employee may sign the appeal form indicating that he or she is unable to resolve the problem. The student will then be directed

to the supervisor of the employee who will meet separately with the student to attempt to resolve the issue. If the supervisor is unable to resolve the issue with the student, then the supervisor will sign the appeal form and direct the student back to the Vice President for Student Services. Completion of the form by the employee and supervisor does not in any way indicate agreement with the complaint. Each party may propose solutions to the disagreement that, if accepted by both parties, results in resolution of the appeal. If either party refuses to accept a proposed solution, the matter is referred to the Student Appeals Committee.

- c. If the student has difficulty contacting the supervisor, he or she should contact the Vice President for Student Services or his or her designee, who is responsible for assisting with contacts.
- d. If the student and/or employee wishes to present documentation to be considered during the hearing, it should be submitted to the Vice President for Student Services or his/her designee no later than two business days prior to the scheduled hearing. Both the student and employee will be given an opportunity to review all documentation submitted prior to the hearing. The Vice President for Student Services or his or her designee shall maintain files of all appeal forms submitted to his or her office. Such forms, together with other records indicating final action on a problem, shall be maintained for a minimum of five years.
- e. Students enrolled in distance courses may find it difficult to come to campus in order to pursue an appeal. In these instances, the process may be handled by telephone with the employee involved, the employee's supervisor, and the Vice President for Student Services by mail, fax, or other agreed upon electronic means for submission of the appeals document. As with other appeals, the Vice President for Student Services will closely monitor the progress, ensuring the contacts are made in a timely fashion and documents are submitted properly. If it becomes necessary for an appeal to go to the Student Appeals Committee, conference calling or any other electronic means agreed upon by both parties will be used. When conference calling is employed for a hearing, no business can be conducted without the student being present on the telephone, with the exception of the deliberations of the Committee in executive session.

The Student Appeals Committee

a. Composition of the Student Appeals Committee

The Student Appeals Committee will be comprised of no less than seven members and will be composed as follows in an effort to ensure the representation of all constituent groups in the College community.

- 1. Two student representatives
- 2. Two faculty representatives
- 3. One Student Services representative,
- 4. One non-faculty employee, and
- 5. One non-teaching professional representative at the level of coordinator or higher who will serve as chairperson.
- Student Appeals Committee Hearing and Procedures
 - 1. The Vice President for Student Services or his or her designee shall be responsible for informing the employee and supervisor involved and the student of the date, time, and place of the hearing. The Vice President for Student Services or his or her designee shall convene the Student Appeals Committee no later than 15 calendar days after receipt of the completed request, along with required signatures from both student and employee, for a hearing.
 - When an appeal is made by a disabled student, the Committee, at its sole discretion, may consult with or include the Director of Support Services in the hearing process for such person's knowledge of disability and ADA issues and requirements.
 - 3. A quorum to conduct Committee business and vote is defined as a minimum of four members. In no case shall any business be conducted unless at least one student and one faculty member are present. There will be an audio recording of the appeal hearing.
 - 4. The decision of the Student Appeals Committee will be conveyed to the student and may be appealed within five business days to the President whose decision will be final. The President's review does not include a new hearing and his or her review shall consist of evidence presented at the hearing. The President will affirm, modify or reject the decision of the Student Appeals Committee.
 - 5. In addition to the committee members, the following persons are permitted to attend the hearing:
 - a. Involved parties
 - b. An advocate for the appealing individual.

 The advocate may not present the appeal or complaint on behalf of the student unless otherwise instructed to do so by the chair of the Student Appeals Committee.

 If the student chooses to have an attorney in attendance, the student must provide notification to the Vice President of Student Services or his or her designee at least three college business days prior to the scheduled hearing date.

c. The chair of the Student Appeals Committee will manage all hearing proceedings, including the sequencing and time allocated for presentation of evidence by both student and employee.

Code of Classroom Conduct

A-B Tech is an institution for adult learning. It is a partnership between instructors with the desire to teach and students with the desire to learn. In order to create an appropriate environment for teaching and learning, there must be respect for the instructor and fellow students. Listed below are guidelines for classroom behavior, which the College has established to ensure that the learning environment is not compromised.

- Absences. Inform the instructor in advance if you know you are going to miss class. Also, take responsibility for getting missed assignments from other students. Do not expect that you will be allowed to make up assignments after an absence, instructors are not responsible for re-teaching the material you missed because of absence.
- Attendance. You are expected to be in class the entire class time. Do not enter late or leave early. Rare exceptions may be excused, particularly under emergency circumstances, but you should be prepared to explain your tardiness to the instructor after class. Likewise, the need to leave early should be explained to the instructor before class.
- 3. **Classroom Behavior.** You are expected to conduct yourself in a professional and respectful manner with your fellow classmates and instructors while engaging in all classroom activities and discussions. All students shall be allowed to freely participate in classroom discourse and shall be allowed to express their viewpoints and ideas as long as those viewpoints and ideas are reasonably related to the topic or assignment being discussed. As a participant in an open and free learning environment, students are free and are encouraged to disagree and challenge others' viewpoints and ideas; however, students shall behave in a professional and respectful manner in class by: a) being recognized by instructors prior to speaking; b) not interrupting other students and instructors when they are speaking; c) listening to students and instructors while they are speaking; and d) speaking in a normal, calm voice when addressing students and instructors.
- 4. **Electronic Devices.** You may not send or receive personal communication on electronic devices during class.
- Conversation. Do not carry on side conversations in class.
- Food, Drink, and Tobacco. You may not have food or drink in class. You may not use tobacco of any form on campus, including electronic cigarettes, or vaping devices.

- Guests. You may not bring unregistered friends or children to class.
- 8. **Internet.** In classes where internet access is provided, you may use the internet for valid, academic purposes only. You may not use it for open access to other non-academic sites, which are unrelated to the course.
- Other Activities. You may not work on other activities while in class. This includes homework for other courses or other personal activities.
- 10. **Personal Business.** You may need to transact personal business with the instructor, asking him or her to sign forms. Plan to do this outside of class.
- 11. **Sleep.** Do not sleep in class.
- 12. **Personal Attire and Protective Equipment**. All students are expected to dress in a manner that is modest, clean and appropriate for the program of study. Good personal hygiene and grooming are also expected and may be outlined by the program of study. Shirts and shoes are required at all times. You must properly wear personal protective equipment at all times in any area of the College in which it is required.
- 13. **Fragrances.** You should avoid wearing strong fragrances of any kind as other students may be allergic to them.
- 14. **Animals:** Domestic Animals are not permitted on campus and may not be left in vehicles on campus property. If a student has a documented disability covered by the ADA and requires an Animal as an Accommodation for access, the student is required to request services from the Support Services Office to receive necessary accommodations. Appropriate documentation of the disability is required and accommodation are determined on a case-by-case basis. Persons with a disability who have a Service Animal are encouraged, but not required, to contact the Support Services Office in the K. Ray Bailey Student Services Center to register as a student requesting accommodations.

Typically, violations of the Code of Classroom Conduct will be dealt with as minor infractions. However, repetition of minor infractions or other more serious violations of the Code of Student Conduct may lead to removal from the classroom while the matter is resolved and referral to the Vice President for Student Services for disciplinary action.

Code of Student Conduct

A-B Tech strives to maintain a safe, nurturing, and orderly learning environment that supports the students, faculty, and staff. Therefore, there are behavioral expectations that outline the responsibilities and proper practices for all students at the College. When, in the judgment of College officials, the student's con-

duct disrupts or threatens to disrupt the College community, appropriate disciplinary action will be administered. Students have the rights of Due Process when accused of a violation of the Code of Student Conduct (please reference policy 823). All matters related to alleged sexual misconduct shall be referred to the College's Title IX Coordinator and governed pursuant to the Sexual Misconduct Policy 112. For matters regarding alleged discrimination and harassment, please refer to the Non-Discrimination and Harassment Policy 111.

A student who is in possible violation of the Code of Student Conduct will be referred to the Vice President for Student Services or designee. If the Vice President of Student Services or designee determines the student's alleged actions are egregious and/or potentially threatening to the learning environment or to campus safety, the student may be immediately suspended for up to ten College business days, pending a due process hearing or Threat Assessment review.

Students who have been found responsible of a violation of the Code of Student Conduct may be assigned consequences based upon the seriousness of the offense. Sanctions for violations may include but not be limited to: verbal warning, written warning, a failing grade for an assignment, examination, or course, administrative withdrawal from courses or academic program, restitution for damages, probation including mandatory periodic progress reports, consequences adapted to the specific violation, suspension, or expulsion. The President shall have final approval in the expulsion of a student.

Violations of any federal, state or local laws occurring while on campus may lead to legal actions as well as campus discipline. Violations of federal, state or local laws occurring off campus may result in disciplinary action if the student's continued presence on campus constitutes a threat to the safety and order of the campus.

Violations for which disciplinary proceedings may be initiated are as follows:

1. Academic Dishonesty: Academic Dishonesty includes submitting someone else's work as one's own; using notes or other material without permission from the faculty on an exam, homework, or other assignments; receiving information from another student during an exam; obtaining a copy of an exam or questions from an exam prior to taking the exam; or having someone else take one's exam and submitting it as his or her own. Academic dishonesty includes Distance and Online students and/or any student who has someone else use an account and password for the purpose of submitting work as one's own.

- Aiding Acts of Academic Dishonesty: Providing information to another student with the awareness that the student intends to use it for deceptive purposes.
- Alcoholic Beverages: Students may not possess or use alcoholic beverages on campus. Students may not be under the influence of alcoholic beverages on campus or at College-affiliated activities or events (please reference Policy 501.05).
- 4. Animals: Students may not have an animal of any kind on campus, or at any College affiliated activities, sites or events. This includes animals left within a vehicle. Limited exceptions to this code may be found in the Animals on Campus Procedure (please reference Policy 802).
- Assault: Students may not assault or threaten to assault another person for any reason whatsoever. Assault may include a demonstration of force, unlawful physical touching, or striking.
- 6. Bullying: Students may not intimidate or threaten with harm any other individual. Bullying is defined as "any pattern of gestures or written, electronic or verbal communications, or any physical act or any threatening communication that takes place on College premises or at any College sponsored function that: (a) places a person in actual and reasonable fear of harm to his or her person or damage to his or her property; or (b) creates or is certain to create a hostile environment by substantially interfering with or impairing a student's educational performance, opportunities or benefits, or a College employee's ability to perform the essential functions of his or her job."
- 7. Communicating Threats: Students may not verbally, in writing, through a third party, or by any other means threaten to physically injure another person or that person's child, sibling, spouse, or dependent or willfully threaten to damage the property of another.
- 8. Copyright Infringement and Peer-to-Peer File Sharing: Students may not violate the College's Copyright Infringement and Peer-to-Peer File Sharing Policy through the act of violating, without permission or legal authority, one or more of the exclusive rights granted to the copyright owner under section 106 of the Copyright Act (Title 17 of the United States Code). These rights include the right to reproduce or distribute a copyrighted work. In the file-sharing context, downloading or uploading substantial parts of a copyrighted work without authority constitutes an infringement (please reference Policy 215 and Policy 1006).

- Damage to Property: Students may not damage property of the College or of any other person working at or attending the College.
- **10. Disobedience:** Students may not disobey the reasonable directions of College employees, including administrators, faculty members, A-B Tech Police and security officers, and other staff employees.
- **11. Disorderly Conduct:** Students may not conduct themselves in a way which will interrupt the academic mission of the College or which will disturb the peace of the College.
- **12. Disrespect:** Students are expected to treat all College employees with respect and courtesy, particularly when and if disagreements arise.
- **13. Disruption:** Students may not disrupt the normal activities of the College by physically or verbally interfering with instruction, meetings, traffic, or scheduled administrative functions.
- 14. **Drugs:** Students may not possess, use, or be under the influence of any narcotic or illegal drugs on campus or at any College-affiliated activities or event. This is in violation of the laws of the state of North Carolina of the United States (please reference Policy 501.05).
- 15. Failure to Comply: Students must comply with the directives of College officials or law enforcement officers during the performance of their duties. Students must identify themselves to these persons when requested to do so. Failure to respond to notifications of conduct charges is also prohibited.
- **16. False Information:** Students may not present to the College or its employees false information; neither may they knowingly withhold information which may have an effect on their enrollment or their status in the institution and which is properly and legally requested by the College.
- **17. Gambling:** Students may not gamble on campus or at any College-affiliated activities or events.
- 18. Internet and Campus Network Acceptable Use:

 The College has an extensive policy for appropriate use of the Internet. Users of the College computers acknowledge the policy whenever they sign on. Students may not use the College's access to the Internet for access to sexually explicit material or for downloading music. Email accounts are provided for student use; however, no right of privacy exists for use of email (please reference Policy 1003). Students may not share their account and password nor may they access another student's account.

- 19. Plagiarism: The intentional theft or unacknowledged use of another's words or ideas. Plagiarism includes, but is not limited to paraphrasing or summarizing another's words or works without proper acknowledgement; using direct quotes of material without proper acknowledgement; or purchasing or using a paper or presentation written or produced by another. If a student is uncertain about what constitutes plagiarism, he or she should discuss this with the class instructor.
- 20. Possession of Weapons: Students may not have a weapon of any kind, including a knife, stun gun, or any firearm in their possession on campus or at any College-affiliated activities or events except handguns as allowed by NC GS §14-269.2(k). Handguns are permitted under these circumstances:
 - The person has a concealed handgun permit that is lawfully issued.
 - The handgun is in a closed compartment or container within the person's locked vehicle.
 - The handgun is in a locked container securely affixed to the person's vehicle.
 - A person may unlock the vehicle to enter or exit the vehicle provided the handgun remains in the closed compartment at all times.
 - The vehicle is locked immediately following the entrance or exit.

Law enforcement officers are exempt from this prohibition. This includes facsimiles of weapons (please reference Policy 305).

- 21. Public Laws: Violations of any federal, state or local laws occurring while on campus may lead to legal actions as well as campus discipline. Violations of federal, state or local laws occurring off campus may result in disciplinary action if the student's continued presence on campus constitutes a threat to the safety and order of the campus.
- 22. Retaliation: Retaliation against any person submitting a report of possible violation(s) of the Code of Student Conduct against another person is strictly prohibited. Retaliation includes, but is not limited to, any form of intimidation, punitive actions from authority figure or peers, reprisal (acts of vengeance) or harassment. Retaliation is a serious violation and should be reported immediately. The College will take appropriate disciplinary action against students found to have retaliated against another.

- **23. Skate Boards, Hover Boards, and Roller Skates:** Skate boards, hover boards, and roller skates are not permitted to be used on campus.
- **24. Theft:** Students may not steal the property of another individual or of the College. Students who are caught stealing will be required to make restitution and may be eligible for civil or criminal prosecution as well as College discipline.
- **25. Threats:** Students may not engage in any behavior that constitutes a clear and present danger to the physical and/or emotion well-being of the student and/or other students, faculty and staff.
- **26. Trespass:** Students are trespassing if in an unauthorized area of the College campus or remain on the College campus after having been directed to leave by a College official.
- **27. Tobacco, E-cigarettes, and Vaping:** Students may not use tobacco of any form, use e-cigarettes, or vaporizing devices on campus or at any College-affiliated activity, sites, or events (please reference Policy 306).
- **28. Unauthorized Access to Records:** Students may not access, view, copy or change official College records without official authorization to do so.
- 29. Use of Social Media: Students should obey their social media platforms terms' of use. Students may not make, or cause to be made, communications (including electronically or through social media) to another person in any manner likely to seriously annoy or cause alarm. Social media may not be used to breech privacy, discriminate or harass. Students may not make, transmit, or attempt to transmit audio or video of any person(s) on College property where there is an explicit expectation of privacy. Any posts or tweets deemed inappropriate on an A-B Tech social web site or blog will be deleted immediately and may result in having access to the site blocked permanently.
- **30.** Violations of Expected Classroom or Learning Environment Behaviors: May include, but not limited to, being disobedient, disrespectful, disruptive to the classroom or learning environment, or not abiding by professional conduct standards.

Threat Assessment

A-B Tech is committed to providing a safe learning and working environment. As such, the College utilizes a threat assessment process to determine whether or not a student's behavior constitutes a potential safety risk to the individual or others. Matters that rise to the level of a potential threat will be handled solely under the Threat Assessment Policy. If the potential abtech.edu

violation of this procedure includes other behaviors or conduct that may also violate the Code of Student Conduct, the violations will also be handled through the Threat Assessment procedure.

Student Rights of Due Process Policy (please reference Policy 823)

Threat Assessment Policy (please reference Policy 819)

For latest Information on classes, operations and student services due to Covid-19, visit: www.abtech.edu

Student Rights of Due Process

Students have the following rights of due process when an allegation has been brought against them regarding violations of the Code of Student Conduct (except, for issues involving sex and gender based discrimination, harassment and violence, see Sexual Misconduct Policy 112):

Students have a right to a Written Notice:

Upon receipt of an incident report to the Office
of the Vice President of Student Services, the
student in question will be sent a written notice
to inform him or her of the allegations regarding
the possible violation(s) of the Code of Student
Conduct.

Students have a right to an Administrative Conference:

- 1. The student will be advised of the date, time, and location of the Administrative Conference with the Vice President for Student Services or designee to discuss and attempt to resolve the issue.
 - a. If the student's alleged actions are considered egregious or disruptive to the teaching and learning environment or to campus safety, the Vice President for Student Services or designee may suspend the student for up to ten College business days. The matter may be moved directly to a Student Due Process Hearing or referred to a Threat Assessment Team for review.
- 2. Outcome of Administrative Conference:
 - a. If the student admits responsibility for a violation(s) of the Code of Student Conduct, sanctions will be administered during the Administrative Conference process and this matter will be considered closed. The student will receive a written notice of all actions taken.
 - b. If the student disagrees with the proposed resolution or denies responsibility for any offense, the matter will move to a Student Due Process Hearing which will be conducted by the Vice President of Student Services or designee.
- If the student fails to attend the scheduled conference, then the matter will be moved to a Student Due Process Hearing.

Students have a right to a Student Due Process Hearing:

- The hearing will be scheduled as soon as practical after receipt of an incident report of allegations deemed to be egregious in nature or after the conclusion of the Administrative Conference.
- Prior to the hearing, the student has the right to review all evidence, including written statements made against him or her. Strict rules of evidence do not apply in the hearing.
- A written hearing notice including the date, time, and location of the hearing will be sent to the student.
- 4. At the hearing, all parties involved in the incident will attend and be given the opportunity to provide evidence. All pertinent parties have a right to speak and be questioned by the Vice President of Student Services or designee during the hearing. Cross-examination between parties is not permitted during the hearing.
- 5. The student is allowed to be accompanied by an advocate. The advocate may not present on behalf of the student unless otherwise instructed to do so by the Vice President for Student Services or designee The student must provide the name and relationship/role of the advocate to the Vice President for Student Services at least three College business days prior to the hearing date
- The student has a right to a recording of the hearing.
- 7. The student has a right to a written notice of the hearing outcome.

Students have a right to a final appeal:

- The student has the right to appeal the outcome of the Student Due Process Hearing to the College President.
- Upon receipt of the hearing decision, the student has five College business days to submit a notice requesting an appeal. This notice must be submitted in writing to the Office of the Vice President for Student Services.
- The President's document review does not include a new hearing but shall consist of evidence presented at the hearing along with a recording of the proceeding.
- 4. The President will affirm, modify, or reject the decision of the Vice President or designee. The President's decision will be final and notification of the decision will be sent directly from the President's office to the student.

The procedure above is in effect for all students. All meetings and/or hearings for distance learners will be arranged using email, fax, conference calls, or other agreed upon electronic means.

Threat Assessment

Overview

A-B Tech is committed to providing a safe learning and working environment. As such, the College utilizes a threat assessment process to determine whether or not a student's behavior constitutes a potential safety risk to the individual or others. Matters that rise to the level of a potential threat will be handled solely under the Threat Assessment Policy. If the potential violation of this procedure includes other behaviors or conduct that may also violate the Code of Student Conduct (Policy #804), the violations will also be handled through this procedure.

Introduction

A threat assessment is an objective process relying on a review of behaviors or conduct to identify potentially harmful, dangerous, or violent situations and to identify possible solutions. A threat is defined as any communication or behavior that suggests to a reasonable person that an individual may intend to harm him or herself or others. The threat may be spoken, written, or gestured and is considered a threat regardless of whether it is observed by or communicated to a third party.

Examples of prohibited conduct that may rise to the level of a threat assessment include, but are not limited to:

- Injuring another person physically including assault:
- Engaging in behavior that creates a reasonable fear of injury to oneself or others including bullying and/or disorderly conduct;
- Engaging in behavior that would subject a reasonable person to, and does subject another individual or individuals to, extreme emotional distress;
- Possessing, brandishing, or using a weapon while on College premises by students except where possession is a result of participation in an organized and scheduled exercise for a course, or where the student is a law enforcement professional;
- Intentionally damaging property;
- Threatening to injure an individual (including oneself) or to damage property; and
- Retaliating against any employee, student or community member who, in good faith, reports a violation of College policy.

In situations where a student may pose a threat to him or herself, the individual may be directed to Student Support Services. However, if the potential threat to him or herself includes other behavior or conduct that may also violate the Code of Student Conduct (Policy #804), the violation will be handled through this process.

There are many behaviors that may cause concern for the safety and well-being of an individual or the campus as a whole. The following is not an exhaustive list but provides examples of concerning behaviors or situations:

- Unusual or abrupt changes in behaviors or patterns;
- Extreme emotional reaction to a loss, traumatic event or situation;
- Preoccupation with weapons, violent events or persons who have engaged in violent acts;
- References to harming others or planning a violent or destructive event;
- Prolonged irritability, angry outbursts or inordinate reactions to situations;
- Strained interpersonal relations, isolating behaviors and/or hopelessness;
- Stalking others, either in person or electronically;
- Past history of disciplinary problems and issues;
- Verbal or physical altercation with another student, faculty, staff, or community member.

These examples of potentially threatening behaviors are not intended to operate as speech codes, promote content and viewpoint discrimination or suppress minority viewpoints in the academic setting. While a student's speech or expression may be deemed offensive by others, it does not necessarily mean it constitutes a threat under this Policy.

Reporting Potential Threats

Anyone who believes that the immediate safety and well-being of an individual or the campus as a whole are at risk should notify the A-B Tech Police Department or call 911. The A-B Tech Police Department is located across from the parking deck in the Mission Health/A-B Tech Conference Center and can be reached by phone at (828) 398-7125. A-B Tech Police officers are available 24-hours a day, 7-days a week. To reach the on-duty officer, please call (828) 279-3166. The A-B Tech Police will forward the report to the Vice President for Student Services (VPSS) or designee and will work in partnership to determine the best course of action.

Individuals may also make a report to the Office of the VPSS by submitting an incident report at www.abtech.edu/incidentreport. While anonymous reports are accepted, it is important that individuals making reports share as much information as possible. The College will make every reasonable effort to preserve the confidentiality of those reporting threatening behaviors. However, confidentiality cannot be guaranteed in the process.

Retaliation

Retaliation against any person in connection with a report of a threat is strictly prohibited. Reports of retaliation will be addressed through this policy and/or

other applicable College policies. Retaliation includes, but is not limited to, any form of intimidation, punitive actions from an authority figure or peers, reprisal (acts of vengeance) or harassment. Retaliation is a serious violation and should be reported immediately. The College will take appropriate disciplinary action against anyone found to have retaliated against another.

Standard of Evidence

The College uses the preponderance of the evidence as the standard for proof of whether a violation occurred. In the threat assessment process, legal terms like "guilt, "innocence" and "burdens of proof" are not applicable. Student Hearing outcomes take into account the totality of all evidence available from all relevant sources. The College will find the Student either "responsible" or "not responsible" for violating College this policy.

Threat Assessment Process

After the VPSS or designee reviews the initial report and determines that it warrants further review, a Threat Assessment Team (Team) will be assembled. Interim measures shall only be used when necessary to protect the student's emotional and physical health and to protect the safety of the campus community. When interim measures are implemented, every effort will be made to expedite the assessment process. Interim measures may include, but are not limited to, changing the student's academic environment or temporary suspension through the investigation and hearing process. Suspensions can only be imposed by the VPSS or the President.

A Team will be comprised of no less than four members of the College's Behavioral Intervention Team (CARE Team) in an effort to ensure an efficient and equitable assessment. The VPSS or designee may at his or her discretion include additional members to the Team. If a conflict or appearance of conflict arises for any member of the Team, the VPSS or designee shall appoint a substitute for that member. The VPSS or designee will serve as chair and provide

The VPSS or designee will serve as chair and provide the Team with the following information:

- The original report or A-B Tech Police incident report;
- Any witness statements and/or any other supporting documentation;
- Any previous disciplinary issues relevant to the threat; and
- Any additional relevant information that would be useful to the Team.

The role of the Team is to review the alleged threat and evaluate the alleged student's behavior/conduct in light of the accumulated evidence in order to determine if a violation of College policy.

in order to determine if a violation of College policy has occurred and whether or not the student constitutes a threat.

The VPSS or designee will provide a written notification to the student explaining that a Team has been assembled and is evaluating the possible threat. This notification will also include the date and time of the Threat Assessment Hearing. Prior to the hearing, the student has the right to review all evidence, including written statements. Strict rules of evidence do not apply in the hearing. If the student is not able to attend, reasonable modifications to the date will be made. However, if the student chooses not to attend the scheduled hearing, the hearing will proceed as planned utilizing the evidence available.

During the hearing, the Team will have full investigatory authority when reviewing the alleged threat and evaluating the student's behavior or conduct. The Team will interview or review statements from the student, witnesses, and other relevant parties involved in the incident. All pertinent parties have a right to speak and be questioned by the Team during the hearing. Direct cross-examination between parties takes place in a modified format. The student has the right to pose questions of those providing evidence through the Team chair.

The Team has the right to inspect the student's school record and may request that the student provide secondary and post-secondary school records. The Team may also request that the student provide additional information such as medical records.

The student is allowed to be accompanied by an advocate. The role of the advocate is to provide support to the student and not to speak on behalf of the student unless invited to do so by the chair. If the student chooses to have an advocate, the student must provide the name and role of the advocate to the VPSS at least three College business days prior to the hearing date.

Threat Assessment Finding

The student has a right to a written notice of the hearing outcome. The hearing outcome will determine if the student is in violation of this procedure and the Code of Student Conduct (Policy #804), and if any sanctions should be imposed. Possible sanctions may include:

- Warning;
- Probation;
- Administrative withdrawal from the Academic Program or course without refund;
- Required counseling;
- No contact directive;
- Suspension from the College without refund;
- Expulsion with automatic appeal to the President; and
- Other sanctions deemed appropriate

Appeal

The student has a right to appeal the outcome of the Threat Assessment Hearing to the College President or designee. Upon receipt of the hearing outcome, the student has five College business days to submit a notice requesting an appeal. This notice must be submitted in writing to the Office of the VPSS. If the recommendation of the Team is suspension from the College, the student will remain suspended through the appeal process. The President's document review does not include a new hearing but shall consist of evidence presented at the hearing along with a recording of the proceeding. The President or designee will affirm, modify, or overturn the decision of the Team. The President or designee's decision will be final and notification of the decision will be sent directly from the Office of the President to the student.

Return to Campus

A student who is suspended from the College as a result of a threat assessment may be considered for re-enrollment. A student wishing to be considered for re-enrollment should contact the Office of the VPSS. Based on sanction requirements additional documentation may be required, including compliance with any conditions that may have been set for re-enrollment.

Records Retention

All documentation will be stored in the Office of the VPSS for a period of seven years at which point the documentation will be moved to an electronic version to be retained permanently. In cases where the student is found to be in violation of this policy or other College policies, this information will be considered as a disciplinary record with the College.

Sexual Misconduct Policy (Title IX)

It is the policy of the Board of Trustees to provide the campus community with education and training to increase awareness, prevention and the prompt reporting and resolution of all types of sex/gender based discrimination, harassment and violence in compliance with all applicable federal and state laws and administrative regulations.

A-B Tech students, employees, and guests/visitors have the right to be free from all forms of sex/gender based misconduct, harassment, and discrimination, examples of which include acts of sexual assault, sexual harassment, domestic violence, dating violence, and stalking (collectively "Sexual Misconduct"). All members of the A-B Tech community are expected to conduct themselves in a manner that does not infringe upon the rights of others in an illegal or offensive manner. A-B Tech believes in zero tolerance for Sexual Misconduct. Zero tolerance means that when an allegation of Sexual Misconduct is brought to an appropriate administrator's attention, protective and other interim safety measures will be used to reasonably ensure that such conduct is stopped, is not repeated, and the effects on the victim and community are remedied, including serious sanctions when a respondent is found to have violated this Policy.

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Non-Discrimination Statement

The A-B Tech Board of Trustees and administration are fully committed to encouraging and sustaining a learning and work environment that is free from prohibited discrimination. The College does not practice or condone discrimination based on race, color, national origin, religion, sex, sexual orientation, gender identity or expression, pregnancy, disability, genetic information/medical history, age, political affiliation or veterans' status in the administration of any of its academic programs and employment practices.

Inquiries or complaints concerning possible discrimination based on any of the categories above should be referred to:

Sexual Misconduct, please contact:
Director of Title IX Compliance, Office of the Vice
President for Student Services
340 Victoria Road, Asheville, NC 28801, (828) 398-7932
All other Student inquiries, contact:
Office of the Vice President for Student Services
340 Victoria Road, Asheville, NC 28801, (828) 398-7143
Employee inquiries, contact:

Office of the Vice President for Human Resources 340 Victoria Road, Asheville, NC 28801, (828) 398-7113

Sexual Misconduct Procedure

Introduction

Overview

This procedure applies to any allegation of Sexual Misconduct made by or against a student, a College employee or a third party regardless of where the alleged Sexual Misconduct took place. The College's disciplinary authority, however, may not extend to third parties who are not students or employees. A-B Tech may take disciplinary action to address Sexual Misconduct and will take appropriate action to investigate and adjudicate the matter if it impacts the educational environment of the College. This procedure applies regardless of the sexual orientation or gender identity of the parties involved.

Title IX

Title IX is a comprehensive federal law that prohibits discrimination on the basis of sex/gender in any federally funded education program or activity. Under Title IX, discrimination on the basis of sex or gender also includes sexual harassment, stalking, dating and domestic violence, or sexual violence, such as rape, sexual assault, sexual battery, and/or sexual coercion. The College's Director of Title IX Compliance has oversight responsibility for handling Sexual Misconduct complaints and for identifying and addressing any patterns and/or systemic problems involving Sexual Misconduct. All allegations involving

Sexual Misconduct should be directed to the Director of Title IX Compliance or, in the case of actions solely between employees, the Executive Director for Human Resources. If the alleged incident involves both an employee and a student, the Director of Title IX Compliance shall take the lead but shall work cooperatively with the Executive Director for Human Resources.

Statements of Prohibition

Rules of Consent

In order for individuals to engage in sexual activity of any type with each other, there must be clear, knowing and voluntary consent prior to and during sexual activity. Consent is sexual permission. Consent can be given by word or action, but non-verbal consent is not as clear as talking about what you want sexually and what you don't. Consent to some form of sexual activity cannot be automatically taken as consent to any other form of sexual activity. Silence-without actions demonstrating permission-cannot be assumed to show consent. Additionally, there is a difference between seduction and coercion. Coercing someone into sexual activity violates these procedures in the same way as physically forcing someone into sex. Coercion happens when someone is pressured unreasonably for sex.

When alcohol or other drugs are being used, a person will be considered unable to give valid consent if they cannot fully understand the details of a sexual interaction (who, what, when, where, why, or how) because the person lacks the capacity to reasonably understand the situation. Individuals who consent to sex must be able to understand what they are doing.

Prohibition of Sexual Misconduct

The College prohibits Sexual Misconduct and is committed to a timely and fair resolution. The College encourages prompt reporting of all types of Sexual Misconduct. While the College will investigate any and all reports of Sexual Misconduct, some Sexual Misconduct can be addressed effectively without full adjudication and/or without formal disciplinary sanctions against a Respondent.

Prohibition of Retaliation

Retaliation against any person in connection with a complaint of Sexual Misconduct is strictly prohibited. Reports of retaliation will be addressed through this procedure and/or other applicable College procedures. Retaliation includes, but is not limited to, any form of intimidation, punitive actions from authority figure or peers, reprisal (acts of vengeance) or harassment. Retaliation is a serious violation and should be reported immediately. The College will take appropriate disciplinary action against any employee or student found to have retaliated against another.

Prohibition of Providing False Information

Any individual who knowingly files a false report or complaint, who knowingly provides false information to College officials, or who intentionally misleads College officials involved in the investigation or resolution of a complaint may be subject to disciplinary action including, but not limited to expulsion or employment termination. The College recognizes that an allegation made in good faith will not be considered false when the evidence does not confirm the allegation(s) of Sexual Misconduct.

Prohibition of Student/Employee Relationships

Employee Relationships: Romantic or sexual relationships between College employees in a direct supervisor/supervisee relationship are prohibited. This prohibition shall continue as long as the employees remain in a direct supervisor/supervisee relationship or in the chain of supervision. Employees violating this provision will be subject to disciplinary action up to and including termination of employment. Romantic or sexual relationships between College employees not in a supervisor/supervisee relationship that impairs the College employee's effectiveness, disrupts the workplace/learning environment, and/ or impairs the public confidence in the College will be subject to disciplinary action up to and including termination of employment.

Employee/Student Relationships: Romantic or sexual relationships between College employees and students are prohibited if the employee and the student have an academic relationship. Academic relationships include any activities in which the employee is a direct or indirect supervisor (i.e. student working in the program or department such as a work study/ student worker or an employee serving as an advisor for a student club or organizational activity) or faculty and staff in an instructional setting for the student (i.e. classroom, lab, or clinical/practical setting). This prohibition shall continue until the student or the employee is no longer affiliated with the College. Employees engaging in inappropriate relationships will be subject to disciplinary action up to and including termination of employment.

Romantic or sexual relationships between College employees and students not in an academic relationship that impairs the College employee's effectiveness, disrupts the workplace/learning environment, and/ or impairs the public confidence in the College will be subject to disciplinary action up to and including termination of employment or expulsion from the College.

Confidentiality

Standards of Confidentiality

The College will respect and make every reasonable effort to preserve the confidentiality of the information and identities shared by the parties involved in

- a Sexual Misconduct matter. College administrators will, however, share information regarding an alleged Sexual Misconduct, as appropriate and necessary, in order to address and resolve the allegation, prevent the recurrence of similar Sexual Misconduct and address the effects of the Sexual Misconduct. In keeping with this respect for confidentiality, information regarding alleged Sexual Misconduct will generally be disclosed by College personnel only as follows:
- All full-time and part-time regular employees and curriculum adjunct faculty members are considered Responsible Employees and have a duty to report to the Director of Title IX Compliance (for student matters) or the Executive Director for Human Resources (for employee matters) unless they fall under the "Confidential Employee" section below. Complainants may want to consider carefully whether they share personally identifiable details with non-confidential employees, as those details must be shared by the employee with the Director of Title IX Compliance or Executive Director for Human Resources. No employee is authorized to investigate or resolve allegations without the involvement of the College's Director of Title IX Compliance or Executive Director for Human Resources. If a Complainant does not wish for his or her name to be shared, does not wish for an investigation to take place, or does not want a formal resolution to be pursued, the Complainants may make such a request to the Director of Title IX Compliance or Executive Director for Human Resources.
- 2. In cases where the Complainant or reporting party requests confidentiality and the circumstances allow the College to honor that request, the College will offer interim supports and remedies to the Complainant but will not otherwise pursue formal action against the Respondent. However, in cases indicating pattern, predation, threat, weapons and/or violence, the College will likely be unable to honor a request for confidentiality. The Director of Title IX Compliance or Executive Director for Human Resources will evaluate the following when determining if a report can remain confidential:
 - a. the seriousness of the alleged Sexual Misconduct;
 - the alleged Complainant's age;
 - whether there have been other complaints of Sexual Misconduct against the Respondent; and/or
 - d. the applicability of any laws mandating disclosure to local law enforcement.

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The privacy of all parties to a report of Sexual Misconduct will be respected unless it interferes with the College's obligation to fully investigate allegations of Sexual Misconduct. Dissemination of information and/or written materials to persons not involved in the resolution process is not permitted. Violations of the privacy of the reporting party or the responding party may lead to disciplinary action by the College which could include expulsion or employment termination.

Confidential Employees

If a Complainant would like to speak confidentially with someone about the details of an incident, the Complainant may contact:

On campus - Student Resources:

• Professional counselors in the K. Ray Bailey Student Services Building on the Asheville Campus (and by appointment at all A-B Tech instructional sites). Students may schedule an appointment with a counselor by calling (828) 398-7581. A-B Tech Counselors will maintain confidentiality except in cases of imminent harm to self or others or in cases related to the abuse of a child, elder, or dependent adult. Counselors are available to help free of charge and can be seen on an emergency basis during normal business hours.

Off-campus - Student and Employee Resources:

- Mobile Crisis Management Services 888-573-1006 (Community Counseling)
- Helpmate 24-Hour Hotline 828-254-0516 (Domestic Violence)
- Our Voice 24-Hour Crisis Line 828-255-7576 (Sexual Assault)
- Employee Assistance Network (EAN) 800-454-1477 (Support services for A-B Tech employees)

Federal Timely Warning Reporting Obligations

Complainants of Sexual Misconduct should be aware that College administrators must issue immediate timely warnings for incidents reported to them that are confirmed to pose a substantial threat of bodily harm or danger to members of the College community. The College will make every effort to ensure that no identifying information is disclosed, while still providing enough information for A-B Tech community members to make safety decisions in light of the danger.

Reporting Options

Reporting to Local Law Enforcement

Individuals may report Sexual Misconduct directly to local law enforcement agencies by dialing 911. Individuals who make a criminal allegation may also choose to pursue College disciplinary action simultaneously. A criminal investigation into the matter does

not release the College from its obligation to conduct its own investigation (nor is a criminal investigation determinative of whether Sexual Misconduct, for purposes of this procedure, has occurred). However, the College's investigation may be delayed temporarily while the criminal investigators are gathering evidence. In the event of such a delay, the College must take interim measures when necessary to protect the alleged Complainant and/or the College community.

Individuals may choose not to report alleged Sexual Misconduct to law enforcement authorities. The College respects and supports individuals' decisions regarding reporting; nevertheless, the College may notify appropriate law enforcement authorities if required or warranted by the nature of the allegations.

Reporting to College Officials

For incidents between students and employees, the Director of Title IX Compliance will work in partnership with the Executive Director for Human Resources or designee to investigate and resolve the allegation.

Director of Title IX Compliance - A-B Tech's Director of Title IX Compliance oversees compliance with all aspects of the Sexual Misconduct policy. The Coordinator works under the Vice President for Student Services. Questions about this policy and procedure should be directed to the Director of Title IX Compliance. Anyone wishing to make a report relating to Sexual Misconduct, discrimination or harassment may do so by reporting the concern to the College's Director of Title IX Compliance.

Michele Hathcock Director of Title IX Compliance Office of the Vice President for Student Services Asheville Campus 828-398-7932 michelechathcock@abtech.edu

Online reporting:

To submit an online report, please visit www.abtech.edu/incidentreport.

Executive Director, Human Resources - Incidents solely between employees may be referred directly to the Human Resources Office.

Shanna Chambers Executive Director, Human Resources Asheville Campus 828-398-7178 shannarchambers@abtech.edu

A-B Tech Police - The A-B Tech Police Department is located across from the parking deck in the Mission Health/A-B Tech Conference Center and can be reached by phone at (828) 398-7125. A-B Tech Police Officers are available 24-hours a day, 7-days a week. To reach the on-duty officer, please call (828) 279-3166.

Anonymous Reporting - Individuals may also file anonymous reports by completing the Incident Report Form. It may be very difficult for the College to take action on anonymous reports since supporting information may be limited. Anonymous reports may be used for statistical reporting purposes.

Reporting Timeframe

An allegation of Sexual Misconduct may be filed at any time, regardless of the length of time between the alleged Sexual Misconduct and the decision to file the complaint. The College strongly encourages individuals to file complaints promptly in order to preserve evidence for a potential disciplinary or legal proceedings. A delay in filing a complaint may hinder the College's investigation.

Limited Immunity

The College community encourages the reporting of misconduct and crimes by Complainants and witnesses. Sometimes, Complainants or witnesses are hesitant to report to College officials or participate in resolution processes because they fear that they themselves may be accused of policy violations, such as underage drinking at the time of the incident. It is in the best interest of this College that as many Complainants as possible choose to report to College officials, and that witnesses come forward to share what they know. To encourage reporting, the College offers Sexual Misconduct Complainants and witnesses amnesty from minor policy violations.

State and Federal Reporting Obligations

A-B Tech follows all state laws regarding mandatory reporting of child abuse to appropriate state officials. Director of Title IX Compliance Additionally, Campus Security Authorities have a duty to report sexual assault, domestic violence, dating violence and stalking for federal statistical reporting purposes (Clery Act). All personally identifiable information is kept confidential, but statistical information must be shared with campus law enforcement. The information to be shared includes the date, the location of the incident (using Clery location categories) and the Clery crime category. This reporting protects the identity of the Complainant and may be done anonymously. The Annual Security Report helps to provide the community with a clear picture of the extent and nature of campus crime, in order to build community safety and awareness. To see a copy of the report, you may go to the College website under Consumer Information.

Investigation Process

Investigative Timeline

The College will make every reasonable effort to ensure that the investigation and resolution of a complaint occurs in as timely and efficient a manner as possible. The College's investigation and resolution of a complaint will generally be completed within 60 College business days of the receipt of the complaint, absent extenuating circumstances. Any party may request an extension of any deadline by providing the Director of Title IX Compliance or Executive Director for Human Resources with a written request for an extension that includes reference to the duration of the proposed extension and the basis for the request. The Director of Title IX Compliance or Executive Director for Human Resources may modify any deadline contained in this procedure as necessary and for good cause.

Standard of Evidence

The College uses the preponderance of the evidence as the standard for proof of whether a violation occurred. In the student hearing and employee grievance process, legal terms like "guilt, "innocence" and "burden of proof" are not applicable. Student and employee hearings are conducted to take into account the totality of all evidence available from all relevant sources. The College will find the Respondent either "responsible" or "not responsible" for violating this procedure.

Advocates

The Complainant and the Respondent are allowed to be accompanied by an advocate. The role of the advocate is to provide support solely to the Complainant or Respondent and not to speak on behalf of either party unless invited to do so by the Presiding Officer. If the Complainant or the Respondent chooses to have an advocate, the name must be provided as well as the role of the advocate to the Presiding Officer at least three College business days prior to the initial meeting or hearing date.

Interim Measure

If at any point the Vice President for Student Services, Director of Title IX Compliance, or designee deems it necessary to implement interim measures for the protection of any member of the College community, actions may be taken including but not limited to the following:

- Temporarily suspend the Respondent for up to ten College business days and move the matter to a hearing;
- Change the Respondent's and/or Complainant's class schedule;
- Take such steps as are reasonable, appropriate and necessary to restrict the Respondent's movement on campus.
- For employees, the President may take the following actions including but not limited to:

- Take such steps as are reasonable, appropriate and necessary to restrict the Respondent's movement on campus;
- Place Respondent on temporary paid administrative leave or reassign the Respondent to other duties.

Interim measures shall only be used when necessary to protect health and safety and, when interim measures are implemented, every effort will be made to expedite the process.

Determination of Investigator and Resolution Process

This procedure applies to students and employees as either the Complainant or the Respondent. The administrator receiving the incident report will determine if the case should be handled by the Director of Title IX Compliance (student/student cases) or the Human Resources representative (employee/employee cases). For incidents involving students and employees, the College will utilize the process for both the student investigation and the employee investigation sections as applicable.

Investigations

When an individual brings forward an allegation of Sexual Misconduct, the individual is referred to as the Complainant. The individual named in the allegation is referred to as the Respondent. The investigation will follow the process below.

Complainants

Student Complainant - Administrative Conference

As soon as is practical, the Director of Title IX Compliance will contact the Complainant to schedule an administrative conference. During these initial meetings, the Director of Title IX Compliance will:

- Work with Complainant to stop and remedy the impact of the current situation;
- Implement safety measures as necessary;
- Conduct an initial investigation to retrieve all relevant facts related to the alleged Sexual Misconduct. During this initial meeting, the Director of Title IX Compliance will explain how the investigation will move forward;
- When applicable, arrange for escort on campus;
- Work as a liaison between Complainant and instructor(s) to allow the details of the situation to remain private;
- Work with the Registrar to adjust class schedule and delivery method as needed

- so as to separate the Respondent from the Complainant. Other accommodations may also be necessary;
- Assist Complainant with accessing our college counseling services;
- Work with faculty to excuse class absences and allow extra time to make up assignments and/or exams;
- Assist Complainant with transportation needs (bus passes);
- Assist Complainant with issues related to Financial Aid;
- Assist Complainant who wish to take their case through the A-B Tech disciplinary process;
- Assist Complainant in connecting with community resources (Pisgah Legal Services, Help Mate, Our Voice, etc.); and/or
- Connect Complainant with resources regarding Protective Orders and work with Campus Police to enforce Protective Orders on College property.

Employee Complainant - Administrative Conference

As soon as is practical, the Human Resources representative will contact the Complainant to schedule an administrative conference. During these initial meetings the following resources may be discussed as applicable:

- Conduct an initial investigation to retrieve all relevant facts related to the alleged Sexual Misconduct. During this initial meeting, the Human Resources representative will explain how the investigation will move forward;
- Work as a liaison between Complainant and supervisor to allow the details of the situation to remain private;
- Connect Complainant with resources regarding Protective Orders;
- Work with Campus Police to enforce Protective Orders on campus;
- When applicable, arrange for escort on campus;
- Work with supervisor to adjust work schedules and duties as needed;
- Work with Human Resources to excuse absences;

- Assist Complainants with accessing the Employee Assistance Network Counseling Services;
- Assist Complainant in connecting with community resources (Pisgah Legal Services, Help Mate, Our Voice, etc.).

Respondents

Student Respondent - Administrative Conference

Prior to the administrative conference with the Respondent, the Director of Title IX Compliance will provide the Respondent, in writing, the allegations. As soon as is practical and after the administrative conference with the Complainant, the Director of Title IX Compliance will contact the alleged Respondent to schedule a meeting. At this meeting, the Director of Title IX Compliance will, as applicable:

- Discuss with the Respondent any initial interim measures that were implemented as a result of the alleged Sexual Misconduct;
- Work with Respondent to ensure that alleged actions of Sexual Misconduct are immediately stopped and prevent future reoccurrence;
- Implement safety measures as necessary;
- Conduct an initial investigation to retrieve all relevant facts related to the alleged Sexual Misconduct. During this initial meeting, the Director of Title IX Compliance will explain how the investigation will move forward;
- Work as a liaison between Respondent and instructor(s) to allow the details of the situation to remain private;
- Assist Respondent with accessing College counseling services;
- Work with faculty to excuse class absences and allow extra time to make up assignments and/or exams;
- Work with the Registrar to adjust class schedule and delivery method as needed so as to separate the Respondent from the Complainant. Other accommodations may also be necessary;
- Assist Respondent with transportation needs (bus passes);
- Assist Respondent with issues related to Financial Aid;
- When applicable, arrange for escort on campus, and/or

Assist Respondent in connecting with community resources (Pisgah Legal Services, Help Mate, Our Voice, etc.).

Employee Respondent – Administrative Conference

As soon as is practical and after the administrative conference with the Complainant, the Human Resources representative will contact the alleged Respondent to schedule an administrative conference. At this initial meeting the following resources may be discussed as applicable:

- Provide the Respondent, in writing, the allegations being brought against him or her;
- Conduct an initial investigation to retrieve all relevant facts related to the alleged Sexual Misconduct. During this initial meeting, the Human Resources representative will explain how the investigation will move forward;
- Discuss with the Respondent, as appropriate, possible interim measures that can be provided to the Respondent pending the results of the investigative and resolution processes;
- Connect the Respondent with resources regarding legal recourse;
- Work as a liaison between the Respondent and supervisor to allow the details of the situation to remain private;
- When applicable, arrange for escort on campus;
- Work with supervisor to adjust work schedules and duties as needed;
- Work with Human Resources to excuse absences;
- Assist Respondent with accessing the Employee Assistance Network Counseling Services;
- Assist Respondent in connecting with community resources (Pisgah Legal Services, Help Mate, Our Voice, etc.).

Recommendations and Hearing

Students

After the investigation is complete, the Director of Title IX Compliance will put forward a recommendation of finding and sanction(s) to both the Complainant and Respondent. If the recommendation is accepted by both parties involved, the recommendation and sanction(s) will become effective and both parties forgo the option of a formal hearing. The

Director of Title IX Compliance will submit to each party a final outcome letter that will include, but not limited to, the following:

- Determination if the Respondent is responsible or not responsible for violating the Sexual Misconduct Policy.
- Sanction, if appropriate.
- Whether monitoring of academic schedules is needed between the parties to ensure that the individuals involved are not in classes together (the Director of Title IX Compliance will assist in this process).
- Short-term College counseling services available to each party.

If the recommendations of the Director of Title IX Compliance are not accepted by either the Complainant or the Respondent, the case will move to a formal hearing. The Vice President for Student Services or a designee will preside over the hearing as the Presiding Officer. If either party is an employee, the Executive Director for Human Resources, and the Vice President for Student Services shall preside jointly over the hearing. The process for the hearing is outlined below:

- Prior to the hearing, the Complainant and the Respondent have the right to review all evidence, including written statements by the Respondent, the Complainant, or witnesses. Strict rules of evidence do not apply.
- Written notice including the date, time, and location of the hearing will be sent to all parties. If the respondent is not able to attend, reasonable modifications to the date will be made. However, if the respondent does not show for the scheduled hearing, the hearing will proceed as planned utilizing the evidence available.
- At the hearing, all pertinent parties have
 a right to speak and be questioned by the
 Presiding Officer. Cross-examination takes
 place in a modified format. Each party has
 the right to pose questions to the other party
 through the Presiding Officer. Each phase of
 the hearing will be heard by both parties in
 separate rooms by use of a speaker phone.
- The Complainant and the Respondent are allowed to be accompanied by an advocate.
 The role of the advocate is to provide support to the Complainant or Respondent and not to speak on behalf of either party unless invited to do so by the Presiding Officer. If the

Complainant or the Respondent chooses to have an advocate, the name must be provided as well as the role of the advocate to the Presiding Officer at least three College business days prior to the hearing date.

 Both parties have a right to a written notice of the hearing outcome.

Employees

After the investigation is complete, the Human Resources representative will put forward a recommendation of finding and sanctions to both the Complainant and Respondent. If the recommendation is accepted by both parties involved, the recommendation and sanctions will become effective and both parties forgo the option of a formal hearing. A final outcome letter will be submitted to the Complainant and Respondent that may include, but not limited to, the following:

- Determination if the Respondent is responsible, not responsible, or if the decision is deemed inconclusive, or shared responsibility.
- Sanction, if appropriate.
- Monitoring of academic schedules or workplace schedule if needed.
- Short-term counseling services will be offered to each party.

If the recommendations of the Human Resources representative are not accepted by either the Complainant or the Respondent, the case will move to a formal hearing. The Executive Director for Human Resources or a designee will preside over the hearing as the Presiding Officer. If either party is a student, the Vice President for Student Services and the Executive Director for Human Resources shall preside jointly over the hearing. The process for the hearing is outlined below:

- Prior to the hearing, the Complainant and the Respondent have the right to review all evidence, including written statements by the Respondent, the Complainant, or witnesses. Strict rules of evidence do not apply.
- Written notice including the date, time, and location of the hearing will be sent to all parties. If the Respondent is not able to attend, reasonable modifications to the date will be made. However, if the Respondent does not show for the scheduled hearing, the hearing will proceed as planned utilizing the evidence available.

- At the hearing, all pertinent parties have a right to speak and be questioned by the Presiding Officer. Cross-examination between parties is not permitted. The College will provide options for questioning without confrontation. Each phase of the hearing will be heard by both parties in separate rooms by use of a speaker phone.
- The Complainant and the Respondent are allowed to be accompanied by an advocate. The role of the advocate is to provide support to the Complainant or Respondent and not to speak on behalf of either party unless invited to do so by the Presiding Officer. If the Complainant or the Respondent chooses to have an advocate, the name must be provided as well as the role of the advocate to the Presiding Officer at least three College business days prior to the hearing date.
- Both parties have a right to a written notice of the hearing outcome.

Sanctioning

The following sanctions may be imposed for those who have violated the Sexual Misconduct Policy:

Student Sanctions:

- Verbal or Written Warning
- Probation
- Administrative withdrawal from an Academic Program or course without refund
- Required Counseling
- No Contact Directive
- Suspension from the College without refund
- Recommendation for Expulsion with automatic appeal to the President
- · Other consequences deemed appropriate

Employee Sanctions:

- Verbal or Written Warning
- Performance Improvement Plan
- Required Counseling
- Required Training or Education
- Recommendation of Demotion (Automatic appeal to the President)
- Recommendation to Suspend with or without Pay (Automatic appeal to the President)

- Recommendation for termination (Automatic appeal to the President)
- Other consequences deemed appropriate to the specific violation

Appeal Process

The Complainant or Respondent has a right to a final appeal to the President:

- a. Upon receipt of the hearing outcome, both parties have five College business days to submit a notice requesting an appeal. For students, this notice must be submitted in writing to the Office of the Vice President for Student Services. For employees, this notice must be submitted in writing to the Office of the Executive Director for Human Resources.
- b. If an appeal is requested, both parties will be notified.
- c. The President will conduct a document review which does not include a new hearing but shall consist of evidence presented at the hearing along with a recording of the proceeding.
- d. The President will affirm, modify, or overturn the decision and/or sanctioning. The President's decision will be final and notification of the decision will be sent directly from the President's office to each party.

Records and Training Requirements

Records Retention for Students and Employees

Students - All documentation will be stored in the Vice President for Student Services' office for a period of seven years at which point the documentation will be moved to an electronic version to be retained permanently.

Students - In cases where the Respondent is found responsible for violating the Sexual Misconduct Policy, this information will be considered as a disciplinary record with the College.

Employees – Personnel files are retained for 30 years. If the action taken is informal counseling, this does not become part of the permanent record.

Civil Rights files must be maintained for a minimum of two years.

Student/Employee Education – The College will provide education to students and employees on an annual basis related to Sexual Misconduct, consent, risk reduction, and bystander interventions.

Pursuant to Board Policy 112, this procedure must be followed when dealing with sexual misconduct.

Drug and Alcohol Policy

A-B Tech is committed to providing a drug-free learning and working environment. From a safety perspective, the use of drugs or alcohol may impair the well-being of students, employees, and visitors, interfere with the College's educational environment, and result in damage to College property. Therefore, it is the College's policy that the unlawful manufacture, distribution, dispensation, possession, or use of narcotics, drugs, other controlled substances or alcohol is prohibited on College premises or as part of any College-sponsored activity.

A-B Tech complies with the Drug Free Workplace Act and the Drug Free Schools and Campuses Act (DFSCA) and applicable Department of Education requirements by instituting the following practices:

- The College will conduct an annual review of the effectiveness of the Drug and Alcohol Abuse Prevention Program (DAAPP). This activity will be the responsibility of the Vice President for Student Services, Executive Director, Human Resources and Organizational Development, or designee. The review will be completed by June 30 of each year so that this information may be used to revise the DAAPP for optimum effectiveness.
- Annual review information will be compiled to produce a biennial review as required by the Department of Education and the DFSCA.

Limited Immunity

A-B Tech realizes that individuals may be hesitant to report to College officials or participate in the resolution process because they fear that they themselves may be accused of policy violations, such as underage drinking or being under the influence of drugs and alcohol at the time of the incident. To encourage individuals to receive appropriate help for various circumstances and to encourage reporting, limited immunity will be provided in the following incidents:

Sexual misconduct: The College offers the reporting party and witnesses limited immunity from minor drug and alcohol policy violations. (Refer to the Sexual Misconduct Policy 112)

Substance misuse treatment: The College offers the reporting party limited immunity when seeking treatment assistance for an addiction. Likewise, a person seeking medical assistance for an individual experiencing a drug-related overdose may also be permitted limited immunity from minor drug and alcohol policy violations (NC Senate Bill 20, 2013).

Students

 No student shall distribute, dispense, possess, use or be under the influence of any alcoholic beverage, malt beverage or fortified wine or other intoxicating liquor or unlawfully manufacture, distribute, dispense, possess, use or be under the influence of any narcotic drug, hallucinogenic drug, amphetamine, barbiturate, marijuana, anabolic steroid or any other "controlled substance" before, during, or after school hours on College premises, at any other College locations, or at College sponsored events activities or events. Students in Continuing Education or Brewing programs over the age of 21, in which alcohol is part of the curriculum, may consume beverages as applicable to the course.

- A student's legal use of prescribed or over-thecounter drugs is not a violation of policy only if such use does not endanger the student or others and it does not interfere with student learning or participation in student-related activities. Students shall be held strictly accountable for their behavior while under the influence of prescribed drugs or over-the-counter drugs.
- Any student who possesses, uses, sells, gives, or in any way transfers a controlled substance or manufactures a controlled substance while on College premises or as part of any Collegesponsored activity will be subject to disciplinary action up to and including expulsion and referral for prosecution, and possible legal sanctions.
- A-B Tech hosts an Addiction, Recovery, and Coping (ARC) program for students each semester. These programs are open to all students, but may be required for students in violation of this policy as a first level disciplinary sanction. Additional educational materials, programs, and other resources are available through both our Student Life and Support Services departments.
- Instructors have the discretion to determine whether a student may be under the influence of drugs or alcohol. If the instructor suspects a student is under the influence of drugs or alcohol, he or she has the authority to contact campus police to remove the student from the classroom. Instructors must notify the Vice President for Student Services or designee of this alleged violation of Code of Student Conduct as soon as possible.

A-B Tech complies with applicable Department of Education requirements by taking the following steps, as they apply to students:

- Prepares the College's Drug and Alcohol Abuse Prevention Program (DAAPP) for annual distribution to all currently enrolled students.
- Publishes the Drug and Alcohol Policy and Procedures on the website and establishes an annual email notification to students with a link to the online documents.
- Incorporates information about drug and alcohol Policy and Procedures in New Student Orientation.
- Reserves the right to search the student, vehicle, and/or personal property of student when on College property or other location where instruction occurs, consistent with applicable law.

Consequences for Violating Policy/Procedures

A student who violates the terms of this policy will be subject to disciplinary action in accordance with the Code of Student Conduct and Student Due Process policies and procedures. The Vice President for Student Services or designee may require any student who violates the terms of this policy to satisfactorily participate in a drug abuse awareness program or other sanctions as listed below. For more severe infractions, the student may be required to complete an off-campus drug or alcohol abuse rehabilitation program sponsored by an approved private or governmental institution as a precondition of continued enrollment at the College. The following sanction options may include, but are not limited to, the following:

- Determination of disciplinary Warning, Probation, or Suspension.
- Complete a drug and alcohol use assessment in order to identify the student's current level of use and to identify appropriate service recommendations.
- Required to attend one or more collegiate recovery group and/or a community recovery event.
- Mandatory counseling focusing on drug or alcohol abuse.
- Referral for off-site formal clinical assessment and treatment.

Employees

A-B Tech complies with the Drug Free Workplace Act and applicable Department of Education requirements by taking the following steps, as they apply to employees:

- Prepares the College's Drug and Alcohol Abuse Prevention Program (DAAPP) for annual distribution to all employees.
- Publishes the Drug and Alcohol Policy and Procedures on the employee Portal page and established an annual email notification with a link to the online documents.
- Incorporates information about the Drug and Alcohol policy and procedures in New Employee Orientation.
- Offers an Employee Assistance Program (EAP), which includes drug and alcohol information, shortterm counseling, and referrals.
- Notifies employees of their obligation to inform the Human Resources Department of any conviction of a criminal drug violation in the workplace (see below).
- Maintains a process for notifying the contracting or granting agency within ten days of receiving notice that a covered employee has been convicted of a criminal drug violation that occurred while on the College's premises or while participating in a workrelated activity. Conducts a thorough and timely assessment regarding internal consequences for

such conviction.

- Reserves the right to search the person, vehicle, and/or personal property of employees when on College property and/or while on duty regardless of location, consistent with applicable law.
- Establishes a separate file in the Human Resources Department where employee drug/alcohol information is maintained. The confidentiality of any medical issues discussed is protected as required by law, and this information will only be shared on a legitimate need-to-know basis or when required by law.

Consistent with the Drug Free Workplace Act, employees are required to:

- Sign a Drug-Free Workplace Statement as a condition of employment.
- Abide by all terms of the Drug and Alcohol Policy and Procedures.
- Notify the Human Resources Department in writing, within five calendar days after conviction of a criminal drug violation that occurred while on the College's premises or while participating in a workrelated activity.
- Participate in the Employee Assistance Program and/or complete a treatment program, if required by the College as a condition of continued employment.

The legal use of prescribed or over-the-counter drugs is permitted on the job only:

 If it does not impair the employee's ability to perform the job effectively and in a safe manner, and that does not endanger the employee or others in the workplace, or interfere with student learning or services.

If an employee needs to take a prescribed or overthe-counter drug that may impair his/her judgment or performance in any way, the employee is required to notify the immediate supervisor before working. It is the employee's responsibility to use appropriate College procedures (i.e. request sick leave) if any use of legal drugs presents a safety risk. Any medical issues discussed will be kept in confidence according to legal requirements.

Employee Assistance Program/Substance Abuse Treatment

A-B Tech encourages the identification and treatment of alcohol and chemical dependency in its early stages before work is affected. Toward this end, the College retains the services of an Employee Assistance Program (EAP) to assist employees who request help with substance abuse. Employees will not be disciplined, demoted, or terminated for seeking professional counseling and/or treatment to recover from an alcohol or chemical dependency. However, employee performance and work behavior will continue to be evaluated consistent with the College's expectations and requirements.

Drug/Alcohol Screening

A-B Tech maintains a drug/alcohol screening program consistent with legal requirements. All drug/alcohol screening is conducted in an approved laboratory identified by the College and in accordance with the NC Controlled Substance Examination Regulation Act. All drug/alcohol screens must be approved by, and coordinated through, the Human Resources Department, except those required after hours, which must be approved and coordinated by the Campus Police Department.

Drug and/or alcohol testing occurs under the following circumstances:

- Pre-Employment: Pre-employment drug screens are required for employees in safety-sensitive positions and/or College programs where such screening is a requirement for placement at a clinical or other site.
- Post-Accident: When there is reasonable suspicion that drug and/or alcohol use or impairment may have contributed to the accident or incident, a postaccident drug/alcohol screen is required for any employee.
- The College will arrange transportation for the employee to the screening location and then home, if necessary to ensure the employee's safety.
- Reasonable Suspicion: A supervisor, with agreement
 of the next level supervisor, senior administrator,
 College police or security officer, and/or Human
 Resources Department, may require an employee to
 participate in drug and/or alcohol screening under
 the following circumstances:
 - There is evidence of drugs and/or alcohol on or about the employee's person or in the employee's vicinity.
 - There is unusual conduct on the employee's part that suggests impairment or influence of drugs and/or alcohol.

The College will arrange transportation for the employee to the screening location and then home, if necessary to ensure the employee's safety.

Participation in College - Sanctioned and other Work-related Activities where Alcohol Is Served

When an employee and/or guest attend a College-sanctioned or work-related activity where alcohol is served, each individual is expected to use good judgment with regard to the amount of alcohol consumed and the legal requirements for safely driving away from the activity. Under no circumstances may an individual under the age of 21 hold or drink an alcoholic beverage on the College's premises or work-related activity at another location.

When the activity is hosted by A-B Tech, the College will arrange for alternate transportation to assist an impaired employee and/or guest in getting home safely when the need is brought to the attention of the A-B Tech employee in charge of the activity. In all situations, each employee and/or guest is responsible for their own behavior and any resulting consequences.

When an employee is chaperoning students during an off-site activity, she or he has an obligation to inform the students that the College's Drug and Alcohol policy is still in effect. Knowingly permitting a student to consume alcohol, except as specifically allowed by the Drug and Alcohol Policy, may result in disciplinary action or dismissal, depending on the College's interpretation of the circumstances and/or legal requirements.

Consequences for Violating Policy/Procedures

Violations of this policy or procedures and/or a confirmed positive drug/alcohol screen may result, at A-B Tech's sole discretion, in disciplinary action and/or dismissal of any employee, depending on the College's interpretation of the circumstances and subject to Policy 509.02, Employee Due Process. Violations may also result in legal consequences, as A-B Tech will notify the appropriate authorities whenever warranted.

At its sole discretion, in lieu of or in addition to taking disciplinary action against an employee, the College may require the employee to satisfactorily complete a drug or alcohol abuse assistance or rehabilitation program. If an employee refuses to seek treatment when required, does not respond to treatment, and/or there are indications that the drug or alcohol dependency persists, the situation will be handled by the College like any other event which adversely affects job performance.

An employee who refuses to submit to a drug or alcohol screen that is consistent with the above criteria, adulterates or dilutes the specimen/sample, substitutes the specimen/sample with that from another person, sends an imposter, refuses to sign the required consent forms, and/or refuses to cooperate in the screening process in such a way that it prevents completion of the examination, will be dismissed subject to Policy 509.02, Employee Due Process, when applicable.

Requirements for A-B Tech and Third Party Events when Alcohol is Sold or Served

At A-B Tech events, and events held on A-B Tech property by third parties, the following guidelines shall apply when alcohol is served:

• Alcoholic beverages may be served no more than one (1) hour before food for the main event is served.

- Once food has been served for the main event, only beer and wine may be served during the main event.
- Events at which alcoholic beverages are served may last no longer than three (3) hours.
- For events that do not precede a meal function, serving heavy hors d'oeuvres, with at least two (2) hot hors d'oeuvres, is required.
- Service of alcohol must be discontinued fifteen (15) minutes prior to the anticipated end of the event.
- When serving alcohol, a "Request to Serve Alcohol" application, provided by A-B Tech, must be completed and returned ten (10) full business days prior to the event.
- In cases where only malt beverages or unfortified wine, are to be served, only the approved "Request to Serve Alcohol" is required.

In addition, in cases where fortified wine or spirituous liquor (i.e. more than malt beverages and unfortified wine) are to be served, all entities, including A-B Tech internal events, must apply for, and be approved for, a "Limited Special Occasion Permit," submitted to, and received from, the NC ABC Commission Permits. This permit must be received by A-B Tech no later than five (5) full business days prior to the event date. Failure to obtain, or deliver, this permit will result in alcohol being banned from the event.

Finally, in cases where malt beverages, unfortified wine, fortified wine or spirituous liquor are to be sold, all entities, including A-B Tech internal events, must apply for, and be approved for, a "Special Occasion Permit," submitted to, and received from, the NC ABC Commission (http://abc.nc.gov/Permit/SpecialPermits). This permit must be received by A-B Tech no later than five (5) full business days prior to the event date. Failure to obtain, or deliver, this permit will result in alcohol being banned from the event.

- Alcoholic beverages must be served/consumed only in the area designated for the event. It is not permissible for individuals to take alcoholic beverages from that area.
- The service of alcohol is limited to invitation-only, private events. Alcohol may not be served at events open to the general public.
- Violation of this policy may lead to the termination of the event by an A-B Tech staff person and/or A-B Tech Police.

Bartenders and/or Catering Services must be licensed to serve alcohol. They shall provide proof that their staff has been adequately trained to recognize the early signs of intoxication in patrons. Staff must also be trained to exercise adequate intervention techniques to reduce or stop patrons' alcohol intake. Bartenders and/or Catering Services shall provide, in writing, intervention techniques, along with a copy of the liquor/serving license, appropriate insurance coverage, and a list of names, addresses, and ages

of those who will distribute the alcohol. This documentation must be provided to A-B Tech Event Coordinator at least ten (10) business days prior to the event.

Food and non-alcoholic beverages MUST be made available at all events where alcohol is distributed.

Events held on the Victoria Road campus under the provisions of the Mission Health/A-B Tech Conference Center Memorandum of Understanding are exempt from guideline seven. Servers must be at least eighteen (18) years of age.

Serving Minors

- No one under the age of twenty-one (21) will be allowed to consume alcohol at an A-B Tech event or event held on A-B Tech campuses. Sponsoring group will need to provide the A-B Tech Event Coordinator with detailed procedures to be followed to prevent service to minors (this is submitted with the "Request to Serve Alcohol" application).
- A-B Tech Police must be notified at least ten (10) days in advance of the date and time of all events at which alcohol service is to be served. A-B Tech Police will provide security coverage. The sponsoring organization will be responsible for any additional costs associated with that coverage.
- If requested, guests must provide photo identification for proof of age before being served.
- No one under the age of twenty-one (21) may sign a Facilities Usage Agreement for an event where alcohol will be served.
- At an event, if anyone is found to have provided an alcoholic beverage to an underage person, A-B Tech Police will respond and local police may be called.

All parties involved in coordinating food service or catering an event at A-B Tech must sign a "Notice of Sale or Distribution of Alcoholic Beverages on A-B Tech Property" indicating their agreement and understanding of the above policy guidelines and agree to adhere to them at all times. Any member of the College community found to be in violation of the College alcohol policy shall be subject to disciplinary actions by the appropriate College office. A-B Tech departments require the approval and signature of the College President if students are to be present at the event.

Refer to Policy 308, Use of Facilities, for more information regarding third party events on College property.

Tobacco Free Campus

It is the policy of the Board of Trustees that Asheville-Buncombe Technical Community College provide students and employees with a safe and healthy environment. No form of tobacco, e-cigarette, or vaporizing device usage is permitted on A-B Tech's campuses, sites, or at College-affiliated activities and events.

Weapons On Campus Policy

The Board of Trustees prohibits the use or possession of any weapons on A-B Tech property or at any College sponsored activities or events except handguns as allowed by NC GS §14-269.4. Handguns are permitted under these circumstances:

- The person has a concealed handgun permit that is lawfully issued.
- The handgun is in a closed compartment or container within the person's locked vehicle.
- The handgun is in a locked container securely affixed to the person's vehicle.
- A person may unlock the vehicle to enter or exit the vehicle provided the handgun remains in the closed compartment at all times.
- The vehicle is locked immediately following the entrance or exit.

The above criteria do not apply to persons and/or situations outlined in GS §14-269, such as sworn law enforcement officers.

Any person found to be in violation of this policy shall be disciplined at the discretion of the A-B Tech administration. Additionally, any person found to be in possession of any weapon will be charged under State law with a misdemeanor or a felony, as stipulated by GS §14-269.2(b) and §14-269.2(c). Upon conviction, a person will be adjudicated at the discretion of the court

Workplace Violence Prevention Policy and Procedures

A-B Tech is committed to providing everyone associated with the College a work and learning environment that is safe and free of violence. To this end, the College prohibits any form of violence.

Reporting Threats or Acts of Violence

 Every member of the College community is responsible for reporting any threats or acts of violence that he/she has witnessed, received, or have been told that another person has witnessed or received. Even without an actual threat, members of the College community should report any behavior he/she has witnessed which he/she regards as threatening or violent when that behavior is job related, might be carried out

- on College property, or is connected to College employment or activities.
- 2. Reports should be made immediately to A-B Tech Police.
- The College will investigate all threats or acts of violence promptly and objectively.

Threats or Acts of Violence

Any member of the College community who threatens or commits an act of violence toward other persons or property on campus, while engaged in any work for or on behalf of the College, or a College sponsored event, shall be subject to disciplinary action, up to and including dismissal from employment, expulsion from the College, and/or banishment from campus, exclusive of any civil and/or criminal penalties that may be pursued, as appropriate. No existing College policy, practice, or procedure shall supersede prevention or acts of violence or threats as defined in this Policy.

Students with Disabilities

Students with disabilities (as defined in the Americans with Disabilities Act of 1990, "ADA") wishing to make a request for reasonable accommodation, auxiliary communication aids or services, or materials in alternative accessible formats should contact Support Services in the K. Ray Bailey Student Services Center, email supportservices@abtech.edu or call 828-398-7581. A student who wishes to file a complaint of alleged discrimination on the basis of disability should contact the Office of the Vice President of Student Services at 398-7146 or 398-7143.

Animals on Campus

Domestic Animals are not permitted on campus and may not be left in vehicles on campus property.

Law Enforcement Agency (Patrol) Animals and Search and Rescue Animals shall be permitted on campus in accordance with federal, state, and local laws, regulations, and ordinances. Therapy Dogs approved through A-B Tech's Volunteers Program (see Policy and Procedure #513) are permitted on campus.

In accordance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and state law, A-B Tech may be required to accommodate an otherwise qualified individual with a disability by making a reasonable modification in its services, programs, or activities. This procedure addresses the use of Service Animals and Service Animals in Training (referred to as "Service Animals(s)" throughout this procedure), and Animals as an Accommodation on campus by qualified individuals with disabilities or individuals authorized to provide training.

The ADA provides that businesses and other entities that serve the public must allow people with disabilities to bring their Service Animals into all areas of the facility where customers and other members of the public are allowed to go. For purposes of this procedure, areas include all classrooms, labs, and other educational and social spaces where a student would go in the course of enrollment in the College.

If another person on campus has a covered disability under the ADA and it includes an allergic reaction to animals, and that person has contact with a Service Animal, a request for accommodation should be made by the individual to the Director of Human Resources (employees) or the Director of Support Services (students). All facts surrounding the concern will be considered in an effort to resolve the concern and provide reasonable accommodation for both individuals.

If a student has a documented disability covered by the ADA and requires an Animal as an Accommodation for access, the student is required to request services from Support Services to receive necessary accommodations. Appropriate documentation of the disability is required and accommodations are determined on a case-by-case basis.

Responsibilities of the Person with a Disability

The care and supervision of a Service Animal or an Animal as an Accommodation is the responsibility of the person with a disability who is using the animal's services. This individual must ensure the animal is in good health, is current on required immunizations, and is licensed in accordance with Buncombe County and Asheville City regulations. The burden of proof of licensure and immunizations remains with the person with a disability.

Dogs must wear a rabies tab at all times. (NC Rabies Law- NCGS. §130A-185)

The Service Animal or Animal as an Accommodation must be under the control of the person with a disability or handler at all times. A Service Animal or Animal as an Accommodation must be restrained by a leash or other appropriate device that does not exceed six (6) feet in length or otherwise be under the control of the person with a disability if the leash or tether will interfere with the ability of the Service Animal to perform required tasks.

Persons with a disability who have a Service Animal are encouraged, but not required, to contact Support Services in the K. Ray Bailey Student Services Center to register as a student requesting accommodations. Individuals registering with this office will be provided with information about other accommodations for which the individual may be eligible. Individuals with Service Animals on other campus sites may contact Support Services via phone at 828-398-7581 or email supportservices@abtech.edu.

Persons with a disability requiring an Animal as an Accommodation are required to contact Support

Services in the K. Ray Bailey Student Services Center to determine specific accommodations for which the individual may be eligible prior to being permitted to bring an animal to campus. Individuals approved for accommodations which include an animal will receive a letter of accommodation that must be kept with the animal at all times and must be provided to any campus official upon request.

Responsibilities of the College Community

If the need for a Service Animal is clear, individuals may not question the presence of the animal on campus. If the need for a Service Animal is not apparent, members of the campus community are permitted to ask the individual two questions:

- Is the animal required because of a disability?
- 2. What work or task(s) has the animal been individually trained to perform?

At no point may campus community members require a Service Animal to demonstrate the tasks for which they have been trained nor may they inquire as to the nature of the individual's disability.

If an individual indicates the animal is an Animal as an Accommodation (oftentimes referred to as an Emotional Support ("Comfort") Animal in popular vernacular), the letter of accommodation must be provided to the requesting college official. If the letter of accommodation is not in the possession of the individual, the college official should contact Support Services for verification of accommodation or the animal may be removed from campus.

Individuals with medical issues who may be impacted by the presence of a Service Animal or an Animal as an Accommodation should communicate with Support Services or Human Resources if they have a concern about exposure to said animal. The individual with the concern will be asked to provide medical documentation that identifies a disability and the need for a reasonable accommodation.

Consequences for Violations

The College has the authority to remove a Service Animal or Animal as an Accommodation from its facilities or properties if the animal becomes unruly or disruptive, unclean and/or unhealthy to the extent that the animal's behavior or condition poses a direct threat to the health or safety of others or otherwise causes a fundamental alteration in the College's services, programs, or activities. The person with a disability is responsible for the costs of repair to any damage to College property caused by the service animal.

It is a Class 3 misdemeanor "to disguise an animal as a service animal or service animal in training" (N.C.G.S. § 168-4.5). In other words, it is a crime under North Carolina law to attempt to obtain access for an animal

under the false pretense that it is a service animal. In addition, it is a violation of the Asheville Animal Ordinance to conceal any animal for the purpose of evading any federal, state or local law.

Additionally, any student who violates any portion of this procedure is subject to discipline under the Student Code of Conduct in addition to any applicable federal, state, or local laws.

Communicable Disease and Occupational Exposure to Blood-borne Pathogens

A-B Tech shall not exclude individuals with communicable diseases unless a determination is made that the individual presents a health risk to himself or others. It is the policy of the College to consider the educational or employment status of those with a communicable disease on an individual basis based on the program of study or work assignment. It is the policy of the College to comply with federal regulations and state statutes regarding blood-borne pathogens as set forth in the Federal Register, 29 CFR. § 1910.1030, and the North Carolina Administrative Code, 10A NCAC 41A, by attempting to limit/prevent occupational exposure of employees and students to blood or other potentially infectious bodily fluids and materials that may transmit bloodborne pathogens and lead to disease or death.

Free Speech, Distribution of Materials and Assembly

A-B Tech is a limited public forum that does not regulate speech or activities based on content or viewpoint. All individuals using College space must comply with the following Procedures. These procedures only apply to the use of College space and not to the use of facilities on campus. For more information regarding facility use, see Use of Facilities Policy 318.

Speech, Distribution of Material and Assembly for College Members

- The College is committed to making the majority
 of its College space available to College members
 who wish to exercise their rights to speech,
 distribution of material and assembly. The
 College maintains the right to reserve any College
 space at any time, with or without prior notice, for
 College use and such use will take priority or over
 any other use.
- 2. All outdoor assembly may not be conducted within 30 feet of any building or otherwise interfere with free flow of vehicular, bicycle or pedestrian traffic.
- 3. Although registration by College members to use

College space is not required, it is recommended for planning purposes. Registration ensures that the desired space will be available on the desired date and time. For more information about registration, see Section II (B) herein.

Speech, Distribution of Material and Assembly for Non-College members

- 1. Non-College members shall be allowed to use the Designated Area (see Definitions section below) between the hours of 8:00 a.m. and 9:00 p.m. on Mondays through Fridays when the College's general curriculum classes are in sessions. The Designated Area is not available on the weekends, on days scheduled for College functions or on days when the College is officially closed. The College maintains the right to use the Designated Area at any time, with or without prior notice, for College use and such use will take priority over any other use.
- Any Non-College members will be allowed to use the Designated Area within the time restriction. All Non-College members must complete a Registration Form (the "Form") and submit it to the Office of Student Life and Development no earlier or later than three (3) business days prior to their activity on campus. The College does not restrict speech and/or activities based on content or viewpoint. The purpose of the Form is to make sure there is adequate space in the Designated Area for the requested date and time and safety concerns. Upon request by College officials, Non-College members will be required to provide proof of registration for use of the Designated Area. Forms will only cover one (1) day at a time. Requests for standing dates (i.e., every Tuesday) will not be honored.
- 3. The College will assign use of a Designated Area on a first come, first serve basis; however, the College may regulate hours to fairly accommodate multiple groups.

General Rules and Regulations for both College and Non-College Members

While expressing speech, distributing material or assembling, both College and Non-College members are prohibited from doing the following: 1) engaging in non-protected speech such as obscenity, speech inciting criminal conduct or speech that constitutes a clear and present danger or speech that constitutes defamation; 2) touching, striking, approaching or impeding the progress of pedestrians in any way, except for incidental or accidental contact; 3) obstructing the free flow of pedestrian or vehicular traffic: 4) using sound amplification or creating noise levels that are reasonably likely to or do cause a material and substantial disruption to the educational environment and/or the operation of the College; 5) damaging, destroying or stealing College or private property; and 6) possessing or

using firearms, explosives or dangerous weapons or substances not allowed on campus by law or by College policy (e.g., drugs, alcohol, non-service animals, etc.). Any acts that are disruptive to the normal operations of the College will not be tolerated and may result in an immediate termination of the activity. Non-College members are required to remain in the Designated Area while on campus.

2. Individuals may distribute pamphlets, booklets, brochures, and other forms of printed materials on the condition that such material is designed for informational (not commercial) purposes. Individuals distributing materials must provide a receptacle for the disposal of such materials. The College does not assume any obligation or liability for the content of such distributed material. Any signs used may not be larger than three feet by four feet in size. Signs must either be held by participants or be freestanding signs that do not stick into the ground. No signs may be mounted on buildings, trees or other College property.

If available, the College will allow officially recognized College student groups to use College chairs and tables. All others individuals and groups will be required to use their own chairs and tables if desired.

- 3. Individuals are responsible for the cleanliness and order of the area they use. Individuals shall leave the area in the same condition it was in before the activity. Individuals who damage or destroy College property shall be held responsible for such damage or destruction. This includes the campus buildings, sidewalks, lawns, shrubs and trees.
- 4. Individuals are subject to sanction for failing to comply with these procedures or other College policies. Such sanctions may include, but are not limited to repairing, cleaning, painting, replacement costs, restitution (as order by a court) and being banned from future use. College members may also be subject to College disciplinary action as outlined in College policies and procedures. Individuals who violate these procedures may be issued a trespass warning and denied future access to College premises. Violations that require police intervention will be reported to the College's Police Department.

Polling Places on Campus

If campus buildings are used as public polling places, all activity must be in accordance with statutory and state/local Board of Elections requirements.

City Sidewalks

City sidewalks that run along the borders of the College's campus are public forums and available to all members of the public. Use of city sidewalks must comply with federal and state laws and city ordinances.

Internet and Campus Network Acceptable Use Policy

Asheville-Buncombe Technical Community College provides campus network and computing facilities including Internet access for the use of faculty, staff, students, and other authorized individuals in support of the research, educational, and administrative purposes of the College.

The College has extensive information technology resources and systems available for both instruction and administrative applications. Faculty, staff, and students are encouraged to become familiar with College technology resources and systems and to use them on a regular basis. Users are expected to exercise responsible, ethical behavior when using these resources and to adhere to the following guidelines:

- Information available on the Internet is not generated or selected by the College. Therefore, the College assumes no responsibility for the accuracy or quality of the information obtained through or stored on the campus network.
- 2. While the College respects First Amendment rights with regard to the Internet, the creation, display and transmittal of illegal, malicious, or obscene materials or fighting words is prohibited.
- 3. The College is not liable for the actions of anyone connecting to the Internet through College facilities. All users assume liability for their own actions.
- 4. The user is responsible for complying with laws protecting software or other accessed information. Downloading programs and files may violate United States copyright laws that protect information and software. All files downloaded from a source external to the College must be scanned for viruses. All users of the Internet by way of College facilities must comply with all relevant policies and procedures of the College.
- Because of the unsecure nature of transmitting files electronically, no right to privacy exists with regard to e-mail, Internet sessions, or electronic file storage and transmission.
- Anonymous e-mails or postings are expressly prohibited.
- Users should be aware that usage statistics in archived log files, used for monitoring system performance and usage patterns, are maintained by the College concerning computer and telephone facilities.
- 8. College employees may make reasonable use of the College network, e-mail, and the Internet as

long as the direct measurable cost to the public is negligible, and there is no negative impact on the employee's performance of duties.

- 9. All users of the Internet by way of College facilities must comply with all relevant policies and procedures of the Board of Trustees.
- 10. Use of the campus network, including e-mail and Internet, for personal gain is prohibited.
- 11. Failure to comply with any of the provisions of this procedure will result in disciplinary action as provided for under the disciplinary policies and procedures for both students and employees.

The College provides access to the Internet by way of the North Carolina Integrated Information Network. All users are subject to the governing policies established by the North Carolina Information Resource Management Commission (IRMC), in addition to this College policy. The current IRMC policy governing the use of the North Carolina Integrated Information Network and the Internet can be reviewed on the Website at www.scio.nc.gov/mission/itPoliciesStandards.aspx.

Peer-to-Peer File Sharing

Federal legislation holds any postsecondary institution receiving Title IV financial aid legally responsible for use of peer-to-peer file-sharing on the institution's network which is in violation of copyright protections. The Higher Education Opportunity Act of 2008 specifically requires the institution's policies and sanctions related to copyright infringement to include the following:

- an annual disclosure that explicitly informs students that unauthorized distribution of copyrighted material, including unauthorized peer-topeer file sharing, may subject students to civil and criminal liabilities;
- a summary of the penalties for violation of Federal copyright laws; and
- a description of the institution's policies with respect to unauthorized peer-to-peer file sharing,

including disciplinary actions that are taken against students who engage in unauthorized distribution of copyrighted materials using the institution's information technology system.

Pursuant to these requirements, a Peer-to-Peer File-Sharing Statement that included this information will be contained in the College's Policies and Procedures Manual, in the annual Student Handbook, and communicated on an annual basis to all College employees.

The College is expected to take measures to effectively combat the unauthorized distribution of copyrighted material, including through the use of a variety of technology-based deterrents. These measures may include, but are not limited to, electronic countermeasures such as network monitoring, port blocking or bandwidth filtering. The College will, to the extent practicable, offer alternatives to illegal downloading or peer-to-peer distribution of intellectual property.

Copyright infringement is the act of exercising, without permission or legal authority, one or more of the exclusive rights granted to the copyright owner under section 106 of the Copyright Act (Title 17 of the Unites States Code). These rights include the right to reproduce or distribute a copyrighted work. In the file-sharing context, downloading or uploading substantial parts of a copyrighted work without authority constitutes an infringement. Violation of these protections may result in disciplinary measures against employees or students as outlined in the institution's Code of Student Conduct up to and including suspension or expulsion. Violations may also result in criminal and civil liabilities.

US copyright laws provide for civil penalties of up to \$150,000 per violation (http://www.copyright. gov/title17/92chap5.html#504) as well as criminal penalties of up to \$250,000 and up to five years in prison for the first conviction (http://www.copyright. gov/docs/2265_stat.html).

Intellectual Property

Intellectual property is a creative work that merits protection by a copyright, trademark, or patent. In the pursuit of academic studies, a student or faculty member may produce such a creative work. A-B Tech supports the development and production of intellectual property.

The College publishes an Intellectual Property policy and procedure, the purpose of which is to protect the College and the creators, including students, as they attempt to transfer inventions or creative works to the marketplace. This policy supports the sharing of property rights between the College and the originator as specified in the procedures.

Academic Procedures (please refer to abtech.edu/a-b-tech-catalog for current procedures)

Classification of Students

Full-time student: A student enrolled for 12 or more credit hours during fall and spring semesters and 9 or more credit hours during the summer semester. Part-time student: A student enrolled for fewer than 12 hours during fall or spring semesters or fewer than 9 credit hours during summer semester.

Declaring, Changing, or Adding Second Majors

In order to declare a program (degree, diploma or certificate), change programs, or add a second program, the student may either make the change in WebAdvisor under "Change My Academic Program" or see an Academic Advisor in Student Services who will complete a change-of-program form indicating the new or added program of study.

If a student is not in any program ("Unclassified") and is not taking any classes that have started already, they will be able to declare a program until the day their first class begins (based on the published start-date, not class meeting times). If a student is taking any 16 week classes (fall or spring) that have already started, they will be able to declare or change their program through the first week of the term. If a student is not taking any classes that have started already, they will be able to declare or change their program until the day their first class begins (based on the published start-date, not class meeting times). The same rules apply for summer semesters. A student may still declare or change their program for a future semester, even if they are taking classes that have already started at the time.

Class Attendance

Regular and punctual class attendance is important in order to achieve success in the course and develop desirable personal traits necessary for success in employment. Instructors are responsible for establishing any attendance/participation requirements and for informing students of those requirements in the class syllabus at the beginning of the academic term. Students are responsible for fulfilling the requirements of the class that are outlined in the course syllabus.

Class Entry Attendance Requirement

It is mandatory that the student attend each class at least once during the first 10% of the term, or in the case of online classes, a graded activity must be submitted during the first 10% of the term. Each online class syllabus must identify the activity to be completed prior to the 10% point of the term, and the date by which the activity must be completed. For hybrid

classes, the student must attend the classroom portion of the class or complete an online graded activity prior to the 10% point of the term. Failure to attend or complete the activity prior to the 10% point will result in the student being dropped from the class. The student will not be allowed to continue in the course or receive a refund.

Programmatic Attendance Requirements

Some programs may have outside regulatory bodies that require a minimum of class attendance/participation hours. These requirements are clearly defined in the respective course syllabus or program orientation information.

Federal regulations require that attendance be reported for students receiving certain types of veteran's benefits and for certain classifications of international students. Instructors will be regularly asked to verify attendance for these specific student groups.

Absences Due to Military Duty

Students must provide prior official notification to instructors of military leave of absence(s). Responsibility for initiating such notice rests with the student. A-B Tech will give excused absences to students who are in the United States Armed Forces and who have received temporary or permanent reassignment as a result of military operations, as well as to students who are National Guard service members placed onto State active duty status during an academic semester for which the student is enrolled. This includes:

- · Providing the student with the option, when feasible, to continue classes and coursework during the academic term through online participation for the period of time the student is placed on active duty; feasibility will be determined by the instructor and/or academic department.
- Providing the student with the option of receiving a temporary Incomplete ("I") grade for any course that the student was unable to complete as a result of being placed on State active duty status; however, the student must complete the course requirements within the first six weeks of the following semester or by an alternate date approved by the Vice President of Instructional Services.
- Permitting the student to drop, with no penalty, any course that the student was unable to complete as a result of being placed on State active duty status. This includes receiving a 100% refund for any tuition and fees for which the student directly paid.

Absences Due to Religious Observance

In compliance with state and federal laws, A-B Tech students are eligible for reasonable accommodations, including two excused absences each academic year, for religious practices or beliefs that are required by the student's faith. The student must submit the Request for Accommodation for Religious Observance form to the instructor no later than the census date (10% point) for the class. Excused absences from classes for religious observances do not relieve students from responsibility for any part of the coursework required during the period of absence.

Prerequisites and Co-requisites

Some courses have prerequisite and/or co-requisite course requirements. All requisites must be satisfied prior to enrolling in a course. A prerequisite course can be satisfied by passing the course at A-B Tech, or by transferring credit for the course from another college or university according to the college's transfer credit policy. If a prerequisite course is currently being taken, but is not passed, the subsequent course must be dropped if registration has already taken place.

A co-requisite course must be taken in the same term. In some cases a co-requisite can be taken in a prior term or transferred to A-B Tech. Contact your advisor for assistance.

Under some conditions, a department chair or Vice President of Instructional Services may waive a preor co-requisite based on a student's demonstrated knowledge of the requisite course material. Requisite waivers do not eliminate a course from a program of study; waived requisites must be taken to satisfy degree, diploma or certificate program requirements.

Course Substitutions

Curriculum course substitutions in a degree, diploma or certificate program must be approved by the Dean responsible for the course being substituted. Some course substitutions also require the approval of the Vice President of Instructional Services.

Introduction to College Courses for Degree-Seeking Students

Degree-seeking students who enroll in a college program requiring ACA 115, ACA 122 or EGR 110 must enroll in and successfully complete the course with a grade of "C" or better in their first semester of enrollment.

Any student who places into more than one developmental course must enroll concurrently in ACA 115, ACA 122, or EGR 110 as appropriate for his or her curriculum.

Students transferring a similar course or who transfer in 24 or more transfer credit hours of college-level work, will be permitted to substitute another course for ACA 115 or EGR 110 and will not be subject to the above requirement and subsequent restrictions.

ACA 122 is required for the Associate in Arts, Associate in Engineering, Associate in Fine Arts in Visual Arts, and Associate In Science degrees and substitutions may not be made.

Schedule Adjustments

Dropping a Class

Students may drop classes without a grade through the 10% point of the semester or the 10% point of a minimester (less than a full semester). Classes can be dropped via Self-Service or may be processed by Student Services (in the K. Ray Bailey Student Services Center), by an Advisor or at the Madison or South site. Dropped classes do not appear on the official transcript.

Adding a Class

For classes 14 weeks or longer, students may add the class up to 48 hours after the start of the first class meeting. For fully online classes that are 14 weeks or longer, students may add the class up to 48 hours after the class's start date.

For classes shorter than 14 weeks, students may add the class until the class meets for the first time. For fully online classes that are shorter than 14 weeks, students may add the class through the end of the start date for the class.

Withdrawing from a Class

After the 10% point and through the 75% point of the term (full semester or minimester) a student may withdraw from a class by submitting a Class Withdrawal Form to Student Services in the Bailey Building or to staff at the Madison or South sites. Withdrawal forms must not be mailed or put in a drop box. Distance students must contact the Registrar's Office at registrar@ abtech.edu.

Students receiving financial aid are strongly encouraged to consult with the Financial Aid Office prior to withdrawing from courses. Students receiving Veteran's Affairs benefits must obtain a last date of attendance from the instructor prior to withdrawing.

Auditing Courses

Any individual may audit a College curriculum (for credit) class based on the following:

- The individual pays the normal tuition and fees.
 However, any person who is at least 65 years old
 may audit courses without the payment of tuition
 provided the individual meets the other criteria
 listed herein. Individuals 65 years or older are
 still required to pay any local fees associated with
 audited courses.
- Auditing students do not take tests or examinations and do not receive grades, credit or financial aid.
 Audits appear on a student's transcript as a "Y" grade, which does not impact the student's GPA.
- Students auditing a course must meet the same course prerequisite and attendance standards as all other students in the course. Auditing a course will not meet the prerequisite of any sequential or higher-level course and cannot be used toward any certificate, diploma, or degree requirements. Physical Education classes may not be audited.
- Auditing is subject to open seats in the course.
 A student who audits a course shall not displace other students seeking to enroll in the course.
- Students who audit a course and withdraw will be issued a grade of "W". Audited courses that are dropped prior to the 10% point of the course will not receive a grade nor appear on the student's transcript.
- Students choosing to audit a course must submit a Request for an Audit Grade form to the Records and Registration Office within the first 15 weekdays of the term for a 16-week class or an equivalent percentage for courses taught on a minimester schedule. The instructor must sign the form to approve the change to audit status. Students seeking to change from audit to credit status must contact the Records and Registration Office during the first five weekdays of the term for a 16-week class or an equivalent percentage for courses taught on a minimester schedule. Approval for changes from audit to credit status will be determined by the Registrar on a case-by-case basis
- Students 65 years or older who are seeking to have the tuition waived for an audited course must request the tuition waiver to the Records and Registration Office at the time when the Request for an Audit Grade form is submitted.

Any individual may audit a College Continuing Education (not for credit) class based on the following:

- Any person who is at least 65 years old may audit courses, with the exception of all self-supporting or Community Services Program courses, without the payment of tuition provided the individual meets the other criteria listed herein. Individuals 65 years or older are required to pay any local fees associated with audited courses.
- Auditing students do not receive credit, certification, or a record of completion on a transcript. Students seeking credit, certification, or a record of completion on a transcript must pay the regular course fee.
- Auditing students may only enroll if a seat is available in the course. Auditing students may not displace students with paid or sponsored registration.
- Students may only audit when the number of students with paid or sponsored registrations meets the minimum number to offer the course.
 Ed2Go courses, or any other individually offered course with a minimum enrollment of one student, may not be audited.

Final Examinations

Each instructor will schedule a final course evaluation at some point during the last five days of the semester or the last two days of the class. The evaluation may consist of one or multiple components or methods. The course schedule will indicate the date(s) and method(s) of evaluation. If the final evaluation is given prior to the last day of class, the schedule will reflect the class activities to take place after the final evaluation.

Students are required to take their final examinations at the time(s) and place(s) scheduled. Conflicts may be resolved by arrangement with the faculty member.

Course Repetition

Students who need a course to graduate may take the course as many times as necessary to pass it. Any course that has been passed or audited may not be taken for credit or audited more than twice per academic year. The twice-per-year regulation also applies to single or elective courses that are not required for graduation. No single Physical Education course may be attempted more than twice.

If a student has a failing grade in a required course, the course must be passed prior to graduation. If a student fails a prerequisite course, it must be repeated successfully before beginning the subsequent course. This could result in the student being enrolled for a longer period than is normally required to complete requirements for graduation.

As courses are repeated, only the higher grade will be used in the calculation of the cumulative GPA; however, both grades will remain on the student's A-B Tech transcript. Only a grade of "D" or above can replace an existing grade.

Catalog 2020-2021

Grading System

Final grades will be issued to all students at the end of the term based on the criteria outlined in the course syllabus. A student who wants to appeal a grade must do so within three weeks of the awarding of the grade. A grade cannot be changed after this period without approval by the department chair and the division dean.

Students will be graded by the following system:

| | | 7 |
|----|---|---|
| A | | Excellent academic performance, consistent mastery of facts and concepts, and a thorough understanding of course content. |
| В | | Good academic performance, high-level mastery of course content. |
| С | | Average academic performance. |
| D | | Marginal academic performance, poor mastery of course content. |
| F | | Very poor performance, no demonstration of even minimal mastery of course content or did not complete the minimum requirements for the course as outlined in the course syllabus. |
| I | Incomplete | Assigned when a student is unable to complete work or the final assessment because of illness or other reasons over which the student has no control. An incomplete grade must be completed within the first six weeks of the next semester or by an alternate date approved by the Vice President of Instructional Services. Otherwise, the grade becomes an "F." |
| P | Proficiency | Does not affect quality point ratio. |
| R | Retake | Proficiency not demonstrated. Class must be retaken. Does not affect quality point ratio. |
| W | Official Withdrawal (no grade penalty) | Assigned when the student OFFICIALLY WITHDRAWS. This will not influence the quality point ratio. Official withdrawals are not allowed after the 75% point of a semester or term, as identified in the official college calendar, except for exceptional and documented emergencies. In such circumstances, the student must withdraw from all courses. Approval for an emergency withdrawal must come from the Vice President of Student Services or his or her designee. |
| IE | Incomplete Emergency | Assigned during a term when the College has been impacted by a natural disaster, pandemic or other circumstance that is deemed as a College wide emergency. An incomplete emergency grade must be completed within one calendar year from the date assigned or by an alternate date approved by the Vice President of Instructional Services. Otherwise, the grade becomes a "WE." |
| WE | Withdrawal Emergency | Assigned during a term when the College has been impacted by a natural disaster, pandemic or other circumstance that is deemed as a College wide emergency. "WE" is assigned when a student OFFICIALLY WITHDRAWS. It is processed and impacts the student record in the same way that a "W" grade does. |

Transcript Codes

Other codes that may appear on the college transcript include the following. These grade codes do not affect the grade point average:

| AP | Advanced Placement course credit. |
|------|--|
| AR | North Carolina High School to Community College Articulation Agreement course credit. |
| CR | CLEP (College Level Examination Program) course credit, or other academic credit applied from non-course activity. |
| NS | No Show. Student enrolled but never attended the class. |
| P | Proficiency. |
| R | Retake. Proficiency not demonstrated. Class must be retaken. |
| T/TR | Transfer credit from other colleges, universities, and military credit. |
| Y | Audit. |

[#] The pound sign next to a grade indicates that the course has been excluded from the quality point average either through course repetition or Academic Fresh Start.

Quality Points

At the end of each semester quality points are assigned in accordance with the following formula. (The minimum program grade-point average for graduation is 2.00 or an average of grade "C.")

| A | 4 quality points per credit hour | D | 1 quality point per credit hour |
|---|----------------------------------|---|---------------------------------|
| В | 3 quality points per credit hour | F | no quality points |
| С | 2 quality points per credit hour | U | no quality points |

The grade-point average (GPA) is determined by dividing the total number of quality points by the number of hours attempted (excluding grades of "I", "IE", "P", "R", "W", "WE"). A grade-point average of 2.00 indicates that a student has an average of "C."

Independent Study

Selected courses may be available for independent study, with approval of the appropriate dean. A student requesting to take a course by independent study must complete the Request for Independent Study form and have it approved by the Department Chair and Division Dean prior to registration. The request to enroll in a course by independent study may be approved when the following conditions are met:

- 1. The course is not offered during the current semester or is in schedule conflict with another required course and is needed for the student to qualify for graduation or transfer.
- 2. The student has a cumulative grade point average of 2.0 or higher.
- 3. The student has completed 15 semester hours of study in his or her academic program at Asheville-Buncombe Technical Community College.
- 4. A full-time faculty member, with the approval of the department chair, agrees to serve as the instructor for the semester of independent study.

Any exceptions must be justified by special circumstances and approved by the Vice President for Instructional Services.

Maximum Course Load

Because of the amount of effort that is expected to be put forth in college-level courses, students are limited to a maximum of 20 credit hours of course work each semester. Exceptions to this rule may be granted by the Vice President for Instructional Services.

Work-Based Learning

Work-Based Learning is the development of job skills and an opportunity for career exploration by providing the non-captive or non-special credit curriculum student with employment that is coordinated with the educational program. Credit of one semester hour is awarded for each 160 hours of Work-Based Learning i.e. WBL curriculum prefix courses.

Colleges may establish minimum criteria for each student seeking academic credit for work-based learning while they learn the requisite skills of a job. The employer ultimately makes the decision as to whether or not an individual is deemed appropriate for their organization.

Current Eligibility Requirements

To be eligible to participate in a work-based learning experience activity, you must meet the following eligibility requirements:

- Be enrolled in a curriculum program that provides a work-based learning (WBL) option.
- Cannot be "tuition exempted"
- Have a minimum of 2.0 cumulative program GPA.
- Have completed a minimum of 9 semester credit hours within the program of study with 3 semester credit hours from the core within the major.

Have approval by the department chairperson

Any exceptions to these requirements must be approved by the appropriate academic Dean.

Standards for Academic Progress

The College has established this standard to:

- Provide struggling students with proactive advising to identify solutions and interventions fostering future and ongoing academic success (e.g., limited scheduling, targeted courses, regular advisor meetings, etc.).
- Provide a means for preventing prolonged academic failure.
- Provide students with a warning when they fail to meet satisfactory academic performance standards

This procedure applies to all curriculum students. Students whose cumulative grade point average (GPA) falls below 2.0 after attempting twelve (12) credit hours (excluding developmental courses) are subject to Academic Warning, which may be followed by two levels of Probation. Cumulative GPA will be calculated using the current official grade for each course taken that semester at Asheville-Buncombe Technical Community College.

Academic Warning

Students failing to meet the minimum cumulative GPA at the conclusion of the semester will receive an academic warning. The warning status will be communicated to the student and the student's Academic Program Dean is notified by the Registrar. To assist students in improving their GPA, the following steps are recommended:

- Student meets with their assigned Academic Advisor within the first few weeks of the semester to develop strategies for academic success; including a review of academic progress prior to next term's registration.
- Student participates in the "Student Success Seminar".

At the conclusion of the Academic Warning semester, students whose cumulative GPA is:

- a. 2.0 and above will be considered in good academic standing.
- b. Below 2.0 will be moved to Academic Probation.

Academic Probation: Level One

Students whose cumulative GPA falls below 2.0 for two successive semesters will be placed on Academic Probation. Academic Probation is posted to the student's official transcript. The student and the student's Academic Program Dean is notified of their probation status. To assist students in improving their GPA, the following steps are required:

- Students must meet with their Academic Advisor before the next semester begins in order to retain their class schedule.
- b. Students must participate in the "Student Success Seminar".
- Students will be permitted to enroll only in courses for that semester that are approved by the Academic Advisor. Courses may include one or more of the following:
 - A limitation on the number of hours attempted;
 - Registering for developmental courses as needed;
 - Registering for a repeat of unsuccessful courses;
 - Referral to other College resources, such as the Financial Aid Office, to receive further guidance.

A student remains on Academic Probation: Level One as long as his or her term GPA in the next semester of enrollment is 2.0 or above and the cumulative GPA is still below 2.0.

Academic Probation: Level Two

Students on Academic Probation: Level One whose GPA during the next semester of enrollment is below 2.0 will be placed on Academic Probation: Level Two for one semester. The student will be notified by the Vice President for Student Services via student email and the student's Academic Program Dean will also be notified by the Registrar. Academic Probation is posted to the student's official transcript. The students' classes will be dropped and they will be blocked from registering until they meet with their academic advisor. Then, students may only enroll in one course in which they previously earned below a "C". Exceptions to this restriction can only be considered and approved by the Vice President for Instructional Services. Students will be required to meet with a counselor to discuss success strategies. Prior to registration, students must meet with their assigned program advisor and must follow the same steps as a student on Academic Probation: Level One. Upon successful completion of one course, students return to Academic Probation: Level One as long as their cumulative GPA is below 2.0.

Pursuant to Board policy, Chapter 200, Section 202.01, this procedure must be followed in enforcing the Standards of Academic Progress.

Academic Fresh Start

Any returning student who has not attended A-B Tech for three years and upon re-enrolling maintains a 2.00 GPA for a minimum of 12 semester hours may petition to have grades on all prior course work more than three years old with a grade less than a "C" excluded in calculating the cumulative GPA. Grades below "C" disregarded in calculating the GPA will not count toward graduation but will remain on the transcript. The student should complete an application for Academic Fresh Start (obtained in the Records and Registration Office), after the end of the semester in which he or she has completed the 12 semester hours required. A student who plans to transfer to another College should contact that institution to determine the impact of Academic Fresh Start on transfer.

Honors and Achievements

Dean's List

For the Dean's List, students must be enrolled in an academic program (degree, diploma or certificate), carrying a minimum of eight credit hours of curriculum courses numbered 100 or above.

- Students must have a minimum 3.75 grade point average to qualify for the Dean's List for the semester under consideration.
- Students who earn grades of F or I are not eligible for the Dean's List for that semester. Students receiving credit for a course by examination are not affected. Only courses numbered 100 and above taken for credit (no audits) will be considered.
- 3. The Dean's List will be compiled by the Office of Records and Registration. The Vice President for Instructional Services will be responsible for final approval and publication.

President's List

For the President's List, students must be enrolled in an academic program (degree, diploma or certificate) and complete a minimum of twelve credit hours of curriculum courses numbered 100 or above.

- Students must have a 4.0 grade point average to qualify for the President's List during the semester under consideration.
- Students who earn grades F or I are not eligible for the President's List for that semester. Students receiving credit for a course by examination are not affected. Only courses numbered 100 and above taken for credit (no audits) will be considered.

3. The President's List will be compiled by the Office of Records and Registration. The Vice President for Instructional Services will be responsible for final approval and publication.

Requirements

Degree, Diploma, and Certificate Programs

Asheville-Buncombe Technical Community College confers the Associate in Arts degree, Associate in Applied Science degree, Associate in Engineering degree, Associate in Science degree, Associate in Fine Arts in Visual Arts degree, Associate in General Education, and General Occupational Technology. A diploma is awarded for completion of one-year applied curricula. Certificates are issued to students who successfully complete designated short-term programs or course sequences. Degrees, diplomas, and certificates are conferred, awarded, or issued by authority of the North Carolina State Board of Community Colleges when all requirements for graduation have been satisfied.

Because of rapid changes in workplace technologies, certain technical courses will "time out" after five years and must be repeated for graduation. Exceptions must be approved by the Dean responsible for the course.

Requirements for Graduation

Degrees and diplomas are conferred and awarded at the end of each academic term. The College holds a single commencement ceremony in May each year. To graduate with a diploma or degree, students must meet the following minimum requirements:

- 1. Declare and be accepted into the program.
- 2. Complete all program requirements by the end of the term. Program requirements are defined in the official catalog. The default catalog is the one in effect for the term in which the student declares the program and cannot pre-date the student's first term of enrollment. Catalogs are valid for five academic years (for example a student graduating in Summer 2021 cannot use a catalog dated prior to 2016-2017). Course requirements must be completed by one of the following:
 - a. Take the course at A-B Tech and attaining the minimum grade required.
 - b. Receive transfer credit. A minimum of 25% of program hours must be completed at A-B Tech. Official transcripts showing required courses must be received by A-B Tech before program completion will be posted to the student's transcript.
 - Earn Credit-by-Exam, CLEP credit, Advanced Placement credit or credit for licensure/certification.
- 3. Earn a grade point average of at least 2.0 in the program of study.
- 4. Fulfill any additional program requirements as defined by special accreditation compliance standards.

- Apply for graduation prior to completion of the program (preferably the term prior to the last term of registration) by submitting a program completion application to the Records and Registration office.
- 6. Be in good standing and fulfill all financial obligations.

Students who have completed degree or diploma requirements in the preceding Fall semester or who are on-track to complete requirements in Spring semester or the subsequent Summer semester will be invited to the May graduation ceremony.

Students with a program GPA of 4.0 will be graduated with Highest Honors Students with a program GPA of at least 3.75 and less than 4.0 will be graduated with High Honors. Students with a program GPA of at least 3.5 and less than 3.75 will be graduated with Honors. Students who are on track to complete a program in the summer semester will not receive recognition for any applicable honors during commencement ceremony in the Spring. Honors designations cannot be determined until all requirements are complete for the student's program of study.

Certificates

Certificates are issued for students who satisfy program requirements following the same criteria as for degrees and diplomas. Certificate completers do not participate in the commencement ceremony unless they also are receiving degrees or diplomas. Honors are not recognized for certificate completions.

Transfer of Credit to Other Institutions

Asheville-Buncombe Technical Community College facilitates the transfer of credit to other institutions. The Associate in Arts, Associate in Engineering, Associate in Fine Arts in Visual Arts, and Associate in Science degree programs are designed for students to transfer to senior institutions at or near the junior level. College transfer courses identified as satisfying the North Carolina Comprehensive Articulation Agreement (CAA) and passed with a grade of "C" or better will transfer to University of North Carolina system institutions and to participating private universities and colleges.

Associate in Applied Science graduates have the option of entering a career, continuing their education at a senior institution or both.

Curriculum courses are designed to transfer to other Community Colleges within the North Carolina Community College System.

The receiving institution determines how courses will be accepted. Student should contact the transfer institution for details on how courses will transfer.

Academic and Student Support Services

Counseling Services and Career Development Services

A-B Tech provides free, confidential counseling and related services for students in the K. Ray Bailey Student Services Center. Students are encouraged to use counseling services if they have personal, academic, or career concerns. The professional counseling staff, after initial assessment, will refer students who need specialized or long-term services to appropriate resources within the community.

Career Services are available to students who are undecided or uncertain about career plans and for those who are ready to make the transition from student to employee. Career resource and information tools are available in the K. Ray Bailey Student Services Center and on the College website at abtech.edu/careers. Sessions are available in career exploration, resume writing, interview skills, and other areas of interest. An appointment may be made by calling 828-398-7209 or emailing careerservices@ abtech.edu.

Job Board and Career Coach are available to curriculum and continuing education students as well as to the general community. Individuals interested in connecting with area employers may participate in Job Board, an online job posting system. Job seekers may create an account, review posted jobs, and apply for positions of interest. Enrolled students may also request resume assistance prior to applying for posted positions.

Academic Advising

In order to ensure that every student receives quality academic advising, A-B Tech has established an academic advising system. Students who are admitted to an applied science degree, diploma, certificate, Associate in Arts, Associate in Science, Associate in Engineering, Associate in Fine Arts program are advised by a faculty member from that curriculum. Students who are admitted to the Associate in General Education (AGE) degree program or who have been identified as a student in need of additional advising, will be advised by an academic advisor in Student Services. Distance students receive advising from their assigned program advisor or from the distance advisor for new or unclassified students at distanceadvising@ abtech.edu.

Student Services advisors are available both on an appointment and walk-in basis.

Students meeting certain criteria may be required to participate in additional advising activities and will be notified of this requirement after completing the placement and orientation process.

Unclassified students may elect to register without meeting with an academic advisor. They may register online via Self-Service. The following process outlines important considerations for individuals choosing to self-advise:

- Prerequisites and co-requisites for courses must be met. Students may submit documentation of prerequisites and co-requisites to a student services advisor.
- High school students must see an advisor to register.
- 3. New students register during general registration. Students who desire to register for more than 20 credit hours in a semester will need the approval of the Vice President for Instructional Services or his or her designee.

Services to Students with Disabilities

Asheville-Buncombe Technical Community College is invested in full compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Support Services at the College ensures that the programs and facilities of the College are accessible to all students. The College focuses on the student as an individual and works toward equal opportunity, full integration into the campus environment, physical accessibility and the provision of reasonable accommodations, auxiliary aids, and services to students.

Student with disabilities who require the services of interpreters, readers, note-takers, or need other reasonable accommodations should request these services from Support Services since federal law prohibits the College from making preadmission inquiries about disabilities. Support Services is located in the K. Ray Bailey Student Services Center. In order to accommodate each student's needs and to provide the necessary support services, professional documentation of a disability or disabilities must be provided to Support Services. Information provided by students is voluntary and appropriate confidentiality is maintained. For detailed information, refer to www.abtech.edu/supportservices.

Students who need assistance for academic services should call Support Services at 828-398-7581 or e-mail supportservices@abtech.edu. Services are designed and developed on an individual-needs basis, and students may elect to use any or all of the services appropriate to their needs at no charge.

An appointment with the Support Services staff is recommended in order to discuss any special concerns. Students who are not satisfied with the decisions of this office may utilize the College's Student Appeals Policy.

Developmental Studies

These courses provides post-secondary students with instruction in fundamental math, English, and reading. As the point of entry for learners needing academic development, the Developmental Studies courses are sensitive to the needs of students making the transition to a college environment. The objective of these courses is to enable students to develop skills and behaviors that will lead to successful achievement in A-B Tech's curricula. Developmental Studies mathematics (DMA) courses have a minimum passing grade of 80%. Students achieving at or above this level of mastery will receive a grade of "P" and those who do not reach the 80% mastery will receive a grade of "R" and will be required to retake the module until mastery is demonstrated. Developmental Studies English and Reading Courses (DRE) have a minimum passing grade of 80%. Students achieving at or above this level of mastery will receive a grade of "P" and those who do not reach the 80% mastery will receive a grade of "R" and will be required to retake the courses until mastery is demonstrated.

Completion of Mathematics Sequence

National research and North Carolina Community College System data support a need for students to stay continuously enrolled in math until they finish the highest-level math course required in their selected curricula. Students who take a semester off from math rarely complete their math sequence, and consequently do not finish the diploma or degree they seek. A-B Tech's Retention Plan calls for students to stay continuously enrolled in math until the sequence is finished.

Transitional Studies Program

Transitional Studies offers programs to support academic improvement in the areas of reading, mathematics, English, social studies, science and contextualized pre-employment skills. Assessment is a basic element of all Transitional Studies programs. Program placement begins with a Test of Adult Basic Education (TABE) or CASAS Test and students are periodically assessed throughout their enrollment to monitor and assist their progress.

The Adult Basic Education (ABE) program supports the development of reading comprehension, mathematical reasoning and computation, and language and writing skills at pre-high school levels. This is designed to lay the foundation for those students who will go on to seek a high school equivalency credential. Classes are also available for students who may not be seeking the HSE but are interested in pre-employment occupational skills development in a contextualized academic environment.

The High School Equivalency (HSE) Preparation program offers instruction in all areas relevant to official high school equivalency credential tests. Instruction for Transitional Studies programs is available at the A-B Tech Main campus, A-B Tech Madison campus, A-B Tech South campus, a variety of community sites, and through an on-line study option.

The Transitional Studies JumpStart Program offers support for high school equivalency credential-seeking students interested in pursuing certificates in a variety of career fields. The program is designed to assist students in completing a variety of classes and certification requirements while they work toward completion of their high school equivalency credential as a means of enhancing their employability and giving them a jump start in their career field. Certificate programs are available in the following areas:

Nursing Assistant I, Electronic Health Records, Accounting, Microcomputer Applications, and Computer Installation and Maintenance Central Sterile processing, Early Childhood, Automotive Technology I, Basic Welding, Basic Machining, Electrical Wiring, Computer Integrated Technology Basic Maintenance, Basic Construction and Millwork, Manicuring and Nail Technology, and Office Professional.

The Transitional Studies ABE/HSE program also provides instruction for high school graduates who wish to improve their academic skills prior to entering college curriculum classes. Students refresh their language and math skills prior to taking the placement tests for enrollment in curriculum classes.

The Transitional Studies English Language Acquisition (ELA) program offers English instruction to non-native English speakers. Students are placed by level at entry and progress until assessment indicates they have achieved a desired level of proficiency. Students at this level who wish to continue their study either to seek a high school equivalency credential or to meet personal goals are directed toward ELA Academic Track classes offered through the ABE/HSE program.

All Transitional Studies classes are free. Some JumpStart career path classes may be fee waived while there may be cost associated with others. Transitional Studies students must be 18 years old or have an official minor permission form on record with the program and be a current North Carolina resident.

Students who wish to pursue the high school equivalency credential or enter the ELA program are required to attend an orientation/registration session.

Please call the Transitional Studies office at 828-398-7433 for more information on orientation/ registration dates and sign-up.

Academic Learning Center (ALC)

The Academic Learning Center provides free tutoring services to A-B Tech students. Tutoring is available on a drop-in basis Monday through Thursday from 9:00 am to 6:00 pm, and on Fridays from 9:00 am to 1:00 p.m. for the following subjects: Math (developmental algebra, trigonometry, calculus, statistics, etc.), Chemistry, and Physics.

The ALC is a supportive, friendly environment where we encourage students to learn independently. Tutors cannot provide answers for assignments/tests or proofread papers. Students must be referred by an instructor and submit a signed referral form ("green sheet"). Talk to your instructor or stop by the ALC in Ferguson 114, 116, and 118. For more information, go to abtech.edu and click on "Academic Learning Center" at the bottom of the page.

The Writing Center

The Carolyn Lisa Johnson Writing Center offers students tutoring appointments for free assistance with academic writing from any subject, professional documents, or creative writing projects. Tutors can provide help at any stage of the writing process, from interpreting prompts to revising drafts to citing sources. Appointments emphasize revision strategies needed to write effectively for any audience, occasion, or purpose. Appointments are available for in-person, online, and remote tutoring. The Writing Center also offers RISE (Revision Is Simply Essential) sessions for improving papers that have received a failing grade OR for strengthening writing fundamentals. RISE sessions require an instructor referral. Walk-in appointments are welcome, but cannot always be accommodated. Students may also schedule regular, weekly appointments for the semester.

The Writing Center, located in Locke 125, is open Monday-Friday from 8:00 a.m.- 5:00 p.m. Evening appointments are available on various days each semester. Please refer to the Writing Center's website for specific dates. In-person, online, and remote tutoring services can be scheduled online at www. abtech.mywconline.com or by calling the Writing Center at (828) 398-7218.

Student Services for Distance Learners

Prior to registering for a fully online curriculum course, students should visit the Distance Learning at A-B Tech webpage found at abtech.edu/online-distance-learning/welcome-distance-learning-a-b-tech. Here students will find helpful links and resources for successful online learning including an online readiness self assessment. Students are also encouraged to complete and an optional Moodle Online Orientation found at https://www.abtech.edu/online-distance-learning/student-online-success.

Following is the list of Student Services available to distance students. Most of these resources are available from the College website at abtech.edu:

- 1. Application: Application to the College may be made on the College website.
- 2. Student Orientation: The New Student Orientation is online.
- 3. Student Handbook: The Student Handbook is also available on the College website.
- 4. Transcript Evaluation: Transcripts from colleges previously attended may be mailed or sent electronically to A-B Tech by the originating college and can be evaluated for transfer credit, if transfer credit is desired. Students will receive a summary of transfer credits in Self-Service.
- 5. Application for Program Completion: Applications for Program Completion may be mailed or emailed to the Office of Records and Registration for evaluation. The application is available on the College website. Applicants will receive an email response to their A-B Tech email account.
- Catalog: The catalog is available on the College website.
- 7. A-B Tech Transcripts: Transcript requests may be made online at abtech.edu/transcripts.
- Adding/Dropping/Withdrawing from Classes: Distance learners may add or drop classes online via Self-Service. Distance learners may receive assistance with withdrawing from classes by emailing the Registar's office at registar@abtech.edu.
- Schedule of Classes: Curriculum schedules are available in Self-Service.
- 10. Financial Aid: Applications for federal financial aid (FAFSA) are available at www.fafsa.gov and scholarship applications are available on the College website. Financial Aid information is available by emailing financialaidoffice@abtech.edu or calling 828-398-7900.
- 11. Academic Advising: Academic advice is available as follows: students classified into programs may receive academic advice by emailing their assigned program advisor at the College. Unclassified students who are not in any program may receive academic advice by contacting generaladvising@ abtech.edu.

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- 12. Veterans' Services: Veterans' services and advice are available by emailing the Veterans' Coordinator at veteranservices@abtech.edu.
- 13. Disability Services: Students with disabilities as defined by the Americans with Disabilities Act may seek services by completing the request forms at www.abtech.edu/supportservices.
- 14. Career Services: For those who need assistance in choosing a major/program, researching specifics of various occupations, writing resumes, and/or interviewing skills, counselors are available by appointment. Students may schedule an appointment by emailing careerservices@abtech.edu or calling 828-398-7209. A job and résumé posting service called Job Board are also available online at the College website.
- 15. Placement Assessment: Placement assessment may be accomplished at any college which offers the NROC EdReady test. Scores can then be faxed by or emailed the originating college. Additionally, college-level SAT, ACT or Accuplacer scores may be used instead of taking the NC-DAP. The College will also accept Compass or ASSET scores. One of these tests is available at every community college in North Carolina as well as at other colleges throughout the country. For information, contact the Testing Center at testingcenter@abtech.edu. Students may schedule a placement test at abtech. edu/placement.
- 16.Payment of Tuition and Fees: Tuition and fees may be paid online from the College website or by using Self-Service.
- 17.Purchase of Books: Books may be purchased online from the College Bookstore.
- 18.Online Technical Assistance: The College provides a Help Desk for students who experience technical issues with Moodle, WebAdvisor Self-Service and other college online services. Students may contact the HelpDesk at helpdesk@abtech.edu.
- 19.Library Services: Students may access the resources of the Locke Library by visiting www.abtech.edu/library.
- 20.Academic Assistance: Tutoring for distance learners in certain disciplines is available. For help with writing, students can contact the Writing Center at abtech.edu/WritingCenter.
- 21. College Events: An updated list of college-sponsored activities and events is available on the College's website calendar.
- 22.Online Learning Readiness Assessment: Prior to taking an online course, prospective students are able to take A-B Tech's Online Learning Readiness Assessment, to ensure that they have the technical and organizational skills to succeed with online learning. More information about the assessment

- can be found at abtech.edu/onlinesuccess.
- 23.Information about computer set-up: The College provides information on the proper technical setup that will be needed for a student to fully engage in the online learning process. This information is located at abtech.edu/content/distance-learning/ setting-your-computer.
- 24.Moodle Orientation: A self-paced Moodle Online Orientation is available to students. This course provides students with the opportunity to test drive the features of Moodle and solicit feedback from an online instructor prior to the start of their curriculum class(es). Completion of the Moodle Online Orientation is required prior to enrollment in fully online curriculum classes.
- 25. Proctored Exams and Identity Verification Costs: A-B Tech does not currently charge online students a separate fee for identity verification. Students enrolled in distance education/online courses at A-B Tech may be required to take proctored exams (exams administered by an approved testing facility). Each distance education/online course will indicate requirements for proctored exams prior to registration. A-B Tech students may take all proctored exams in the Testing Center at no charge. Students may also use any A-B Tech approved proctoring location; however, it is the student's responsibility to locate and seek approval of the site. In addition, students using a site other than the A-B Tech Testing Center may be subject to fees charged by the respective location. Information on A-B Tech's Off-Campus Testing Procedures, including required forms, may be found at https://www.abtech.edu/ testing-center/campus-testing-procedures.

A-B Tech Police Department

The department's mission is to serve the College in a manner that is unsurpassed and serve as the standard for others to emulate. The primary function is to provide an environment that allows students, staff, faculty and visitors to interact in safe and secure surroundings. The role is to actively support the educational activities of the college through safety, security and parking services. These services will meet the highest level of approval and will constantly strive to anticipate the needs of the College community.

Telephone Numbers for A-B Tech Police

Main College: 398-7654 Non-Emergency: 279-3166 Emergency: 398-7125 or 9-911

Parking Regulations

All students are required to register their vehicles and display parking permits. Copies of parking regulations are available in the K. Ray Bailey Student Services Building lobby and the college website. Parking spaces designated for individuals with disabilities are located at each facility. Spaces marked by yellow lines are for faculty and staff use only. Students park in white lined spaces. All parking fines must be paid prior to registering for classes, seeing grades or getting transcripts.

Safety Tips

The following tips can help students avoid becoming a victim of a crime when they are at school, work, or just out and about.

By taking a few simple precautions, students can reduce their risk, and also discourage those who commit crime.

Be Prepared

- Students should always be alert and aware of the people around them.
- Students should educate themselves concerning prevention tactics.
- Students should be aware of locations and situations which would make them vulnerable to crime, such as alleys and dark parking lots.

Street and Parking Lot Precautions

- Students should be alert to their surroundings and the people around them, especially if they are alone or it is dark.
- Whenever possible, students should travel with someone else.
- Students should stay in well-lit areas as much as possible.
- Students should walk close to the curb, avoiding bushes and alleys where someone could hide.
- Students carrying purses should hold them securely between their arms and body.

 Students should walk confidently, and at a steady pace.

Car Safety

- Students should ALWAYS lock car doors after entering or leaving their cars.
- Students should park in well-lit areas.
- Students should have their car keys in hand before getting to the car.
- Students should check the back seat before entering the car.
- If a student thinks he or she is being followed, the student should drive to a security, police, sheriff or fire station.
- Students should not stop to aid motorists stopped on the side of the road. Students should go to a phone and request help.
- Students should never pick up hitchhikers.

Office and Classroom Safety

- Students should never leave a purse or billfold in plain view or in the pocket of a jacket hanging on a door or chair.
- Students should not leave cash or valuables in an office or classroom, even for a short time, such as a break.
- Students should be aware of escape routes for emergencies.
- Students should report suspicious people and activities to security personnel.
- When sitting in the cafeteria, lounge or on outside benches, students should always keep personal belongings with them.
- If working alone or before/after normal business hours, students keep doors locked.
- If attending night classes or working late, students should try to walk out with one another or call security for an escort.

If a Crime Occurs – Report It

Everyone should consider it his or her responsibility to report crime. Many criminals target favorite areas and have predictable methods of operation. At least one out of two crimes in the United States goes unreported, usually because people don't want to get involved. Not reporting a crime allows the criminal to continue to operate without interference.

In many cases, it is the information provided by victims and witnesses that leads to the arrest of a criminal. No fact is too trivial.

Crime statistics for A-B Tech are posted annually on the US Department of Education, Office of Postsecondary Education's web site at http://ope.ed.gov/security/. For a copy of the A-B Tech Annual Security Report, please visit www.abtech.edu/campus-police-and-security/campus-safety-and-security-reporting.

Other College Services and Information

College Services

A-B Tech Café. The Cafe is located in the Coman Student Activity Center. Breakfast and lunch meals, including sandwiches, salads, and soups, are prepared daily. Regular hours of operation are posted in the Cafe and are normally from 7 a.m. to 2:30 p.m. for the grill, 7 a.m. to 4 p.m. for the snack shop Monday-Thursday and 7 a.m. to 2:30 p.m. for both grill and snack shop on Fridays. Hours may vary. Vending machines dispensing soft drinks, coffee, and snacks can be found at various locations around campus.

A-B Tech Police. A-B Tech Police are on duty 24 hours a day, seven days a week. Each officer is prepared to respond to medical emergencies. Call 828-398-7125 OR 828-279-3166.

Bookstore. A bookstore is operated by the College for the convenience of students and staff members to provide required textbooks and materials. Students should plan to purchase all texts and materials at the beginning of each semester.

Textbook costs vary considerably depending upon the curriculum and semester. Book costs also vary from year to year because of changes in curriculum book prices, texts, and material requirements.

Texts and materials will be made available in alternative accessible formats for individuals with disabilities upon request to the Disabilities Services Academic Advisor. (Support Services office)

Child Care. A-B Tech has limited dollars to assist students with child care services rendered off campus. These funds are provided annually by the state of North Carolina, and funding is therefore subject to annual state budgeting. To be eligible, the student must be approved for federal financial aid, having submitted a FAFSA. The student must have unmet need of greater than \$1,000, be taking 12 or more credits, with at least 9 credits taken on campus and be in good academic standing with a GPA of at least 2.5. For further information, call 398-7143.

College Closing or Delayed Opening. The College will either be closed or opened on a delayed schedule when inclement weather conditions warrant such a decision. (See Student Handbook for Inclement Weather Procedures at abtech.edu/student-handbook.) Closing or delaying announcements are placed on the switchboard automated attendant, on the A-B Tech website at abtech.edu, and will be made on Asheville radio and television stations and some surrounding community radio stations. Separate decisions and announcements are made for the day and evening programs.

College Events. For an updated list of College sponsored activities and events, please click on the calendar link on the College website, **abtech.edu.**

Culinary Arts. The Culinary Arts, Baking and Pastry Arts, and Hospitality Management students offer lunch and dinner service on most Thursdays during fall and spring semesters. Service is provided in the dining rooms of the Magnolia and Fernihurst Buildings on the A-B Tech Asheville Campus. For more information, email reservations@abtech.edu.

Dental Clinic. A-B Tech Allied Dental Clinic offers great savings on dental treatment. The services provided are routine dental cleaning, periodontal (deep) cleaning, fluoride treatments, sealants and digital dental radiographs. The clinic is by appointment only and they accept cash, check and credit cards. For additional information you may call 828-398-7255 or email dental@abtech.edu.

Honorary Societies. The College participates in the Phi Theta Kappa Academic Honor Society. Membership to the National program is open to any student who has a 3.5 GPA after 12 credits of completed work.

Intramurals. A-B Tech offers a wide variety of intramural activities that are open to student or employee participation. Check the calendar portion of the student handbook for a listing of intramural activities. Students can sign up for these activities in the gymnasium of the Coman Student Activity Center. For more information, visit www.abtech.edu/sports.

Health Clinic. The clinic provides examinations by a licensed physician assistant/nurse practitioner. Student fees are \$10 per visit. Services include, but are not limited to, treatment for aches, blood pressure evaluations, prescriptions, minor emergencies, medical questions, common cold, flu and virus care. For more information call 828-398-7570 or email healthclinic@abtech.edu. Students may be seen as a 'walk-in' patient in the Ferguson Center for Allied Health and Workforce Development (AHWD) in room 115.17.

Don C. Locke Library. The Don C. Locke Library is the academic center of campus, providing resources to support all academic programs offered on-campus, at our extended campuses, and online. The Library offers a wide variety of materials including books, e-books, periodicals, and online databases for student and faculty research. DVDs and audio books are also available for checkout.

Computers located on the main floor of the library are available on a first-come, first-served basis for students' research and class assignment use. The open computer lab is located on the lower floor of the Locke Library. The Library provides wireless internet access. Laptop computers may be borrowed from the circulation desk for three hours of use. A limited number of laptops are available for home use.

A Librarian is available at all times the Library is open to provide research guidance. Instructors may schedule a Librarian led instruction session. The Library offers comfortable seating, quiet study areas, and group study rooms. Information about Library services is available at the circulation desk or by calling 828-398-7301.

| Library Hours | |
|-------------------|-----------------------|
| Monday-Thursday | 7:30 a.m. – 9:00 p.m. |
| Friday | 7:30 a.m. – 5:00 p.m. |
| Saturday - Sunday | Closed |

Mountain Tech Spa. The Mountain Tech Spa is an on-campus spa facility, located in the Birch Building, providing practical experience for Cosmetology, Esthetics Technology, Manicuring/Nail Technology, and Cosmetology Instructor students under the direction of College faculty. For more information or to schedule an appointment, email spa@abtech.edu or call (828) 398-7670.

Parking Locations and Shuttle Service. Parking is provided at various locations around campus. Refer to the campus map located in this catalog for specific sites. Students with disabilities are provided parking at all locations. Parking areas are lighted during evening hours. Spaces marked with yellow lines are reserved for faculty, staff, disabled persons, and visitors. White lined spaces are reserved for students. A limited shuttle service is provided for students who park in remote lots, during the first few weeks of fall and spring semesters. Shuttle routes and schedules can be found by calling 828-398-7654.

Placement Service. No reputable college can guarantee jobs for graduates. However, the College will assist students and alumni in every possible way to obtain suitable employment. Applied Science department chairs are particularly helpful with placing their program graduates. Career Services maintains an online Job Board where employers may post openings and where students/alumni may post their resumes.

The RESET room. Located in Elm 204, this is a safe place for students to press pause and reset before continuing with their day. This is a place of support for those in recovery (substances, mental health, trauma, etc.) It is open Monday through Friday 9 a.m. to 5 p.m. when classes are in session. For more information call 828-398-7536 or go to abtech.edu/ARC.

Small Business Center. The Small Business Center supports the development of new business and the growth of existing businesses by being a community based provider of training, counseling, and resource information. Confidential counseling services and access to resource libraries are free of charge as are the majority of seminar offerings.

Student Business Incubation. Students with an

entrepreneurial spirit may apply for the student incubation program managed by the Small Business Center. The program is designed to provide a nurturing environment for students to develop and grow their own businesses. They receive guidance toward becoming sustainable and contributing members of a strong economic community. The 12-month extracurricular program is located at A-B Tech's Enka site and is open to all students. More information can be found at **abtech.edu/sbc**.

Student Clubs and Societies. A-B Tech has more than 15 clubs and societies. Students can access a full list of clubs and societies on the College website, **abtech. edu/student-organizations.**

Student Lounge. A Café and lounge space are located in the Coman Student Activity Center. The Café offers a full selection of breakfast and lunch options including a salad bar, grill, coffee, juices, etc. Wifi access is available throughout Coman Building.

Student Housing. Students are responsible for their own living accommodations. A-B Tech neither approves nor maintains housing facilities. Students who are looking for housing or roommates may check bulletin boards in the K. Ray Bailey Student Services Center or the Coman Student Activity Center.

Study Abroad Program. A-B Tech occasionally sponsors both curriculum and continuing education study abroad opportunities for students. Students who want to participate must be enrolled in the College, register for the study abroad course, and purchase health and accident insurance valid outside of the United States. Students who successfully complete the study abroad activity and the course requirements will receive course credit.

Vet Café. The Vet Cafe in Ferguson Auditorium building is a place for veterans attending the College to come to take a break, network with other veterans, study and receive support from volunteers. The Vet Café is open Monday through Friday from 9 am to 5 pm when classes are in session.

Curriculum Programs

Types of Curriculum Programs

Curriculum programs are composed of credit-bearing courses that may transfer to other institutions and which also lead to a credential such as a degree, diploma, or certificate. A-B Tech offers two main types of curriculum programs: career and technical programs and college transfer programs:

- Career and technical programs typically lead to a credential of a certificate, diploma, or Associate of Applied Science (A.A.S.) degree and are intended to prepare students to enter the workforce directly.
- College transfer degrees include the Associate of Arts (A.A), Associate of Science (A.S.), Associate of Fine Arts (A.F.A.), or Associate of Engineering (A.E.). College-transfer degrees are designed to mimic the first half of a bachelor's degree and are composed entirely of courses that are designated as transfer to a senior institution.

College transfer degrees at A-B Tech are further broken into Pathways, which are structured curricula designed to maximize the benefit of credits that a student will transfer toward a specific major at a four-year institution. Once a college transfer student declares a Pathway during the first semester, an academic advisor will assist the student by identifying Pathway-specific courses that will transfer to four-year institution. See Transfer Pathways on page 117.

Section Designators for A-B Tech Curriculum Courses

Location/Delivery Method

The main campus does not have a Location identifier. All other locations have a Location identifier.

- E A-B Tech Enka
- R A-B Tech Madison Ramsey Center
- **S** A-B Tech South
- W A-B Tech Woodfin
- **X** Off campus (hospital, clinical, etc.)
- C Co-requisite section for MAT or ENG gateway courses
- Online
- **H** Hybrid (51-99% online)
- **B** Blended (50% or less online)
- Z Section that has instructor at one site and students at other sites and meets synchronously
- **D** High School Section
- I Independent Study

Time

- L Late Start
- M Mini-mester

Sequence Number

One to three digits

General Education for the Associate of Applied Science

As part of the Associate in Applied Science (AAS) degree, students take courses in General Education. These courses provide students with a knowledge base of historical, societal, and environmental contexts for succeeding in the changing global community. General Education courses represent a full spectrum of communication, humanities and fine arts, social and behavioral sciences, and natural sciences and mathematics courses. General Education courses facilitate student acquisition and sharing of knowledge, encourage social interaction, and promote an educated citizenry. General Education courses also develop broad, cross-curriculum knowledge and skill sets that prepare the student for the challenges of post-graduation endeavors.

The General Education Student Learning Objectives at A-B Tech indicate:

Students will critically evaluate information.

- Students will demonstrate information literacy.
- Students will critique works of human expression.
- Students will analyze scientific literature.

Students will solve problems.

- Students will identify processes.
- Students will analyze problems.
- Students will interpret results.
- Students will recommend appropriate strategies or solutions.

Students will effectively communicate.

- Students will communicate appropriately for the subject.
- Students will communicate appropriately for the audience.
- Students will communicate appropriately for the medium.

AAS programs require specific general education courses and will vary by program. These courses are listed below.

| Communication | Humanities/Fine Arts | Social/Behaviorial Science | Natural Science/ Mathematics |
|---------------|----------------------|----------------------------|---------------------------------|
| COM 110 | ART 111 | ECO 251 | BIO 161 |
| COM 120 | ART 114 | ECO 252 | BIO 163 |
| COM 231 | ART 115 | HIS 111 | BIO 168 |
| ENG 110 | HUM 110 | HIS 112 | MAT 110 |
| ENG 111 | HUM 115 | HIS 131 | MAT 121 |
| ENG 112 | MUS 110 | HIS 132 | MAT 143 |
| ENG 114 | MUS 112 | POL 120 | MAT 152 |
| | PHI 215 | PSY 150 | MAT 171 |
| | PHI 240 | SOC 210 | PHY 110/110A |
| | | SOC 225 | PHY 121 |

Academic Success and Public Service

The Academic Success and Public Service Division provides postsecondary education in the departments of Education, Health and Fitness Science, and Human Services Technology. Programs of study are designed in cooperation with local and regional employers to meet the changing needs of dynamic workplaces. All programs emphasize the mastery of both analytical and communication skills. Education Faculty work collaboratively throughout the community so that students grow in their ability to support learning and development of all children in diverse educational settings. The Health and Fitness Science faculty promote and provide the facets of exercise science that attend to the safety of the students while providing them instruction in the proper use of exercise equipment and facilities. The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies that provide social, community, and educational services. Where appropriate, the programs work with local advisory boards to adapt to the needs of the workplace in cooperation with any changes required by the NCCCS. Classes are available for most programs in a variety of formats.

A.A.S. Degrees

Early Childhood Education Health and Fitness Science Human Services Technology

Transfer Degrees

Associate in Arts in Teacher Preparation Associate in Science in Teacher Preparation Early Childhood: Licensure Transfer Track Early Childhood: Non-Licensure Transfer Track

Certificates

Early Childhood Human Service & Substance Abuse Studies Infant/Toddler Care

Early Childhood Associate

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Specific Program Requirements

- 1. General college admission requirements.
- 2. According to GS 110-91, "No person shall be an operator of nor be employed in a child care facility who has been convicted of a crime involving child neglect, child abuse, or moral turpitude, or who is a habitually excessive user of alcohol or who illegally uses narcotic or other impairing drugs, or who is mentally or emotionally impaired to an extent that may be injurious to children."
- 3. Prior to the second semester of coursework, students must submit an Early Education Criminal Record Check Qualification Letter from the Division of Child Development and Early Education. (http://ncchildcare.nc.gov/general. dhhscrc_childcare.asp).
- 4. Students who take EDU 284 must have a current Criminal Record Check Qualification letter and must provide results of a Tuberculin Test Indicating that the individual Is free of active tuberculosis (within the 12 months prior to the first day of the course) in order to receive placement in a practicum classroom. (10A NCAC 09 .0701).

See advisor about bi-lateral transfer agreements with select universities.

Early Childhood Education Associate in Applied Science Degree (A55220WF)

Courses requiring a grade of "C" or better: ART, ACA, CIS, COM, EDU, ENG, MAT, and PSY

| CIS, CON | i, EDO, ENG, MAT, and FST | |
|--------------------|-----------------------------------|---------|
| First Seme | ster (Fall) | Credits |
| EDU-119 | Intro to Early Childhood Educ | 4 |
| EDU-144 | Child Development I | 3 |
| EDU-145 | Child Development II | 3 |
| EDU -146 | Child Guidance | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| Second Se | mester (Spring) | |
| EDU-131 | Child, Family & Community | 3 |
| EDU-151 | Creative Activities | 3 |
| EDU-153 | Health, Safety & Nutrition | 3 |
| EDU-221 | Children w/ Exceptionalities | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| Third Semo | ester (Summer) | |
| ART-111 | Art Appreciation | 3 |
| COM-231 | Public Speaking | 3 |
| Fourth Sen | nester (Fall) | |
| CIS-110 | Intro to Computers | 3 |
| EDU-234 | Infants, Toddlers & Twos | 3 |
| EDU-259 | Curriculum Planning | 3 |
| EDU-261 | Early Childhood Administration I | 3 |
| EDU-262 | Early Childhood Administration II | 3 |
| Fifth Seme | ster (Spring) | |
| EDU-248 | Developmental Delays | 3 |
| EDU-280 | Language and Literacy Experiences | 3 |
| EDU-284 | Early Childhood Capstone Prac | 4 |
| PSY-150 | General Psychology | 3 |
| Total Credi | t Hours Required | 65 |

Early Childhood: Licensure Transfer Track (A55220TL)

Courses requiring a grade of "C" or better: ART, BIO, COM, EDU, ENG, MAT, PHY, PSY, and SOC

| First Semest | Credits | |
|--------------|-------------------------------|---|
| EDU-119 | Intro to Early Childhood Educ | 4 |
| EDU-144 | Child Development I | 3 |
| EDU-145 | Child Development II | 3 |
| EDU-146 | Child Guidance | 3 |
| ENG-111 | Writing and Inquiry | 3 |

| Second Se | mester (Spring) | |
|--------------|-----------------------------------|----|
| EDU-131 | Child, Family & Community | 3 |
| EDU-151 | Creative Activities | 3 |
| EDU-153 | Health, Safety & Nutrition | 3 |
| EDU-221 | Children w/ Exceptionalities | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| Third Seme | ester (Summer) | |
| ART-111 | Art Appreciation | 3 |
| COM-231 | Public Speaking | 3 |
| Fourth Sem | ester (Fall) | |
| BIO-110 | Principles of Biology | 4 |
| EDU-234 | Infants, Toddlers & Twos | 3 |
| EDU-216 | Foundations of Education | 3 |
| EDU-250 | Teacher Licensure Preparation | 3 |
| ENG-112 | Writing/Research in the Disc. | 3 |
| Fifth Semes | ster (Spring) | |
| EDU-280 | Language and Literacy Experiences | 3 |
| EDU-284 | Early Childhood Capstone Prac | 4 |
| PSY-150 | General Psychology | 3 |
| PHY-110 | Conceptual Physics | 3 |
| PHY-110A | Conceptual Physics Lab | 1 |
| SOC-210 | Intro to Sociology | 3 |
| Total Credit | t Hours Required | 70 |

Early Childhood: Non-Licensure Transfer Track (A55220NL)

Courses requiring a grade of "C" or better: ART, BIO, COM, EDU, ENG, MAT, PHY, PSY, and SOC

| First Seme | ster (Fall) | Credits |
|------------|-------------------------------|---------|
| EDU-119 | Intro to Early Childhood Educ | 4 |
| EDU-144 | Child Development I | 3 |
| EDU-145 | Child Development II | 3 |
| EDU -146 | Child Guidance | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| | | |
| Second Se | mester (Spring) | |
| EDU-131 | Child, Family & Community | 3 |
| EDU-151 | Creative Activities | 3 |
| EDU-153 | Health, Safety & Nutrition | 3 |
| EDU-221 | Children w/ Exceptionalities | 3 |
| MAT-143 | Quantitative Literacy | 3 |

| Third Seme | ster (Summer) | |
|---------------|-----------------------------------|----|
| ART-111 | Art Appreciation | 3 |
| COM-231 | Public Speaking | 3 |
| | | |
| Fourth Seme | ester (Fall) | |
| BIO-110 Princ | iples of Biology | 4 |
| EDU-234 | Infants, Toddlers & Twos | 3 |
| EDU-261 | Early Childhood Admin I | 3 |
| EDU-262 | Early Childhood Admin II | 3 |
| ENG-112 | Writing/Research in the Disc. | 3 |
| | | |
| Fifth Semes | ter (Spring) | |
| EDU-280 | Language and Literacy Experiences | 3 |
| EDU-284 | Early Childhood Capstone Prac | 4 |
| PHY-110 | Conceptual Physics | 3 |
| PHY-110A | Conceptual Physics Lab | 1 |
| PSY-150 | General Psychology | 3 |
| SOC-210 | Intro to Sociology | 3 |
| Total Credit | Hours Required | 70 |

Early Childhood Certificate (C55220L1)

The Early Childhood Certificate program is designed to provide students minimum entry-level skills to work with children from three to five years old. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, and school-age programs.

Specific Program Requirements

- 1. General college admission requirements.
- 2. According to GS 110-91, "No person shall be an operator of nor be employed in a child care facility who has been convicted of a crime involving child neglect, child abuse, or moral turpitude, or who is a habitually excessive user of alcohol or who illegally uses narcotic or other impairing drugs, or who is mentally or emotionally impaired to an extent that may be injurious to children."
- 3. Prior to the second semester of coursework, students must submit an Early Education Criminal Record Check Qualification Letter from the Division of Child Development and Early Education. (http://ncchildcare.nc.gov/general. dhhscrc_childcare.asp).

| Courses requiring a grade of C of better. | | | |
|---|-------------------------------|---|--|
| First Semester (Fall) | | | |
| EDU-119 | Intro to Early Childhood Educ | 4 | |
| EDU-145 | Child Development II | 3 | |
| EDU-151 | Creative Activities | 3 | |
| | | | |
| Second Sen | nester (Spring) | | |
| EDU-146 | Child Guidance | 3 | |
| EDU-259 | Curriculum Planning | 3 | |
| Total Credit Hours Required 16 | | | |

Courses requiring a grade of "C" or better: EDLL

Infant/Toddler Care Certificate (C55290)

The Infant/Toddler Care certificate prepared individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competencybased knowledge, and practice in actual settings with young children under the supervision of qualified teachers.

Coursework includes infant/toddler growth and development, physical/nutritional needs of infants and toddlers, safety issues in the care of infants and toddlers, care and guidance, communication skills with parents and children; design and implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start programs, and other infant/ toddler programs.

Specific Program Requirements

- General college admission requirements.
- According to GS 110-91, "No person shall be an operator of nor be employed in a child care facility who has been convicted of a crime involving child neglect, child abuse, or moral turpitude, or who is a habitually excessive user of alcohol or who illegally uses narcotic or other impairing drugs, or who is mentally or emotionally impaired to an extent that may be injurious to children."
- 3. Criminal background checks are required prior to the second semester of coursework.

Courses requiring a grade of "C" or better: EDU

| First Seme | Credits | | |
|--------------------------|-------------------------------|----|--|
| EDU-119 | Intro to Early Childhood Educ | 4 | |
| EDU-144 | Child Development I | 3 | |
| EDU-131 | Child, Family, & Commun | 3 | |
| Second Semester (Spring) | | | |
| EDU-153 | Health, Safety & Nutrit | 3 | |
| EDU-234 | Infants, Toddlers, and Twos | 3 | |
| Total Credi | t Hours Required | 16 | |

Teacher Preparation Associate

The Associate in Arts/Associate in Science in Teacher Preparation degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.7 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Associate in Arts in Teacher Preparation (A1010T)

| First Semester (Fall) | | Credits |
|-----------------------|-------------------------------|---------|
| ACA-122 | College Transfer Success | 1 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| EDU-187 | Teaching and Learning for All | 4 |
| | GenEd Elective (see advisor) | 6 |
| Second Sem | ester (Spring) | |
| BIO-110 | Principles of Biology | 4 |
| ENG-112 | Writing/Research in the Disc | 3 |
| PHI-240 | Introduction to Ethics | 3 |
| PSY-150 | General Psychology | 3 |
| SOC-210 | Intro to Sociology | 3 |
| Third Semest | ter (Fall) | |
| EDU-216 | Foundations of Education | 3 |
| EDU-250 | Teacher Licensure Preparation | 3 |
| SOC-225 | Social Diversity | 3 |
| | GenEd Elective (see advisor) | 6 |
| Fourth Semes | ster (Spring) | |
| ART-111 | Art Appreciation | 3 |
| COM-231 | Public Speaking | 3 |
| EDU-279 | Literacy Develop and Instruct | 4 |
| HUM-220 | Human Values and Meaning | 3 |

Total Credit Hours Required

Associate in Science in Teacher Preparation (A1040T)

| (2110101 | <i>'</i> | |
|-------------|-------------------------------|---------|
| First Seme | ster (Fall) | Credits |
| ACA-122 | College Transfer Success | 1 |
| CHM-151 | General Chemistry I | 4 |
| | (or BIO-111) | |
| EDU-187 | Teaching and Learning for All | 4 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT -171 | Precalculus Algebra | 4 |
| Second Se | mester (Spring) | |
| CHM-152 | General Chemistry II | 4 |
| | (or BIO-112) | |
| ENG-112 | Writing/Research in the Disc | 3 |
| MAT-172 | Precalculus Trigonometry | 4 |
| PSY-150 | General Psychology | 3 |
| | GenEd Elective (see advisor) | 3 |
| Third Seme | ester (Fall) | |
| ART-111 | Art Appreciation | 3 |
| EDU-216 | Foundations of Education | 3 |
| EDU-250 | Teacher Licensure Preparation | 3 |
| SOC-225 | Social Diversity | 3 |
| | GenEd Elective (see advisor) | 3 |
| Fourth Sem | nester (Spring) | |
| COM-231 | Public Speaking | 3 |
| EDU-279 | Literacy Develop and Instruct | 4 |
| HUM-220 | Human Values and Meaning | 3 |
| | GenEd Elective (see advisor) | 3 |
| Total Credi | t Hours Required | 60 |

Health and Fitness Science

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry.

Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities.

Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

Health and Fitness Associate in Applied Science Degree (A45630)

Courses requiring a grade of "C" or better: ACA, BIO, HEA and HFS

| First Seme | ster (Fall) | Credits |
|-------------|---------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| ENG-111 | Writing and Inquiry | 3 |
| HFS-110 | Exercise Science | 4 |
| HFS-116 | Pvnt & Care Exer Injuries | 3 |
| MAT-143 | Quantitative Literacy or higher | 3 |
| PED-110 | Fit and Well for Life | 2 |
| Second Se | mester (Spring) | |
| BIO-155 | Nutrition | 3 |
| BIO-168 | Anatomy & Physiology I | 4 |
| COM-231 | Public Speaking | 3 |
| HFS-111 | Fitness & Exer Testing I | 4 |
| | PED Elective | 1 |
| Third Seme | ester (Summer) | |
| PSY-150 | General Psychology | 3 |
| | Humanities/Fine Arts Elective | 3 |
| Fourth Sen | nester (Fall) | |
| BIO-169 | Anatomy & Physiology II | 4 |
| BUS-137 | Principles of Management | 3 |
| HEA-112 | First Aid and CPR | 2 |
| HFS-120 | Group Exercise Instruction | 3 |
| HFS-218 | Lifestyle Chng & Wellness | 4 |
| Fifth Seme | ster (Spring) | |
| HFS-114 | Phys Fit Theory & Instr | 4 |
| HFS-118 | Fitness Facility Mgmt | 4 |
| HFS-210 | Personal Training | 3 |
| HFS-212 | Exercise Programming | 3 |
| WBL-111 | Work-Based Learning | 1 |
| | PED Elective | 11 |
| Total Credi | t Hours Required | 69 |

PED Elective: PED-117, PED-118, PED-119, PED-120, PED-122, PED-217

NOTE: Graduates of the Health and Fitness Science program will be required to sit for the American Council on Exercise Personal Trainer Certification Exam before graduation. Graduates may also be eligible to sit for a variety of other examinations that pertain to the health and fitness industry.

Human Services Technology

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies that provide social, community, and educational services. Along with core courses, students take courses that prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Specific Program Requirements

- 1. General college admission requirements.
- 2. Students pursuing the degree should be aware that employers in the human services field (substance abuse and otherwise) can require prospective volunteers, interns, and employees to pass medical examinations, criminal background, drug & alcohol screen, immunization, and citizenship verification checks before they will be allowed to work at an organization.

Human Services Technology Associate in Applied Science Degree (A45380)

Courses requiring a grade of "C" or better: ACA, DDT, HSE, PSY, SAB, SOC

| First Semest | er (Fall) | Credits |
|--------------|----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| ENG-111 | Writing & Inquiry | 3 |
| HSE-110 | Intro to Human Services | 3 |
| SAB-135 | Addictive Process | 3 |
| SAB-140 | Pharmacology | 3 |
| | | |
| Second Sem | ester (Spring) | |
| DDT-110 | Developmental Disabilities | 3 |
| HSE-123 | Interviewing Techniques | 3 |
| HSE-125 | Counseling | 3 |
| HSE-227 | Children & Adol in Crisis | 3 |
| PSY-150 | General Psychology | 3 |
| | | |
| Third Semes | ter (Summer) | |
| CIS-110 | Introduction to Computers | 3 |
| | | |

| | Sociology of the Family | 3 |
|------------|---------------------------|---|
| SOC-213 | | |
| PSY-281 | Abnormal Psychology | 3 |
| HSE-225 | Crisis Intervention | 3 |
| BIO-161 | Intro to Human Biology | 3 |
| Fifth Seme | ster (Spring) | |
| SOC-225 | Social Diversity | 3 |
| PSY-241 | Developmental Psychology | 3 |
| HSE-240 | Issues in Client Services | 3 |
| HSE-220 | Case Management | 3 |
| HSE-112 | Group Process I | 2 |
| Fourth Sen | nester (Fall) | |
| SAB-210 | Sub Abuse Counselling | 3 |
| HUM-115 | Critical Thinking | 3 |
| HSE-210 | Human Services Issues | 2 |
| COM-231 | Public Speaking | 3 |

Human Services & Substance Abuse Studies Certificate (C45380L1)

This certificate offers students an opportunity to learn about substance abuse and professional human services practice. The certificate has been designed to enhance the professional knowledge base of individuals who have obtained or who desire to obtain entry-level employment in human services settings, particularly those serving individuals affected by substance abuse issues.

The certificate's course work can be of particular value to:

- . Workers already employed in the human services field who desire to increase their knowledge of substance abuse and professional human services practice.
- Individuals seeking to obtain or renew credentials as a substance abuse professional through the North Carolina Substance Abuse Professional Practice Board (NCSAPPB); consult the NCSAPPB website for credentialing requirements.
- 3. Students who are currently completing or who have previously completed the requirements of the College's associate degree in Human Services Technology who desire to expand their knowledge of substance abuse as a component of wider human services practice.

Specific Program Requirements

- 1. General college admission requirements.
- 2. At least 50% of the credit hours required for the certificate must be completed at the College.
- Compliance with the expectations and standards outlined in the Human Service Technology student handbook.
 Catalog 2020-2021

4. Students pursuing the certificate should be aware that employers in the human services field (substance abuse and otherwise) can require prospective volunteers, interns, and employees to pass criminal background, drug screen, and citizenship verification checks before they will be allowed to work at an organization.

Courses requiring a grade of "C" or better: DDT, HSE, and SAB

| First Semester (Fall) | | Credits |
|-----------------------|----------------------------------|---------|
| HSE-112 | Group Process I | 2 |
| SAB-135 | Addictive Process | 3 |
| SAB-140 | Pharmacology | 3 |
| Second Se | mester (Spring) | |
| DDT-110 | Developmental Disabilities | 3 |
| HSE-227 | Children & Adolescents in Crisis | 3 |
| Third Seme | ester (Summer) | |
| SAB-210 | Substance Abuse Counseling | 3 |
| Total Credi | t Hours Required | 17 |

The Human Services & Substance Abuse Studies Certificate is offered in a 100% online format. Distance learning allows the degree to be completed around the student's personal schedule without the need to travel to a physical location.

Allied Health

The Allied Health Division offers a variety of programs designed to meet the increasing demand for specialized professionals in health care. The programs in this division present a broad range of career options for individuals desiring a career in allied health. The division offers a variety of programs at the Associate in Applied Science degree, diploma and certificate levels.

In addition to classroom and laboratory instruction, each program emphasizes learning experiences in health care settings within the community. This extensive training at clinical, pre-hospital, and laboratory settings affords students a unique opportunity to develop the specialized skills required for employment in a health profession.

An individual desiring training in health programs should have a background in chemistry, biology, science, mathematics, and social/behavioral sciences. Applicants should become familiar with the selection criteria and application deadlines for specific programs in the Allied Health Division. People interested in health careers are advised that professional licensure, certification, employment, or admission to clinical/work experience sites may be denied to anyone who has been convicted of a felony or other crime involving moral turpitude.

Graduation Requirements

Because of rapid changes in workplace technologies, certain technical courses will "time out" after five years and must be repeated for graduation. Exceptions must be approved by the department chairperson. All courses with the following prefixes, DEN, MED, MLT, NUR, OTA, PBT, RAD, SON, SUR, and VET are designated as five year "time out" courses and must have been completed within five years of graduation.

A.A.S. Degrees

Associate Degree Nursing
Dental Hygiene
Medical Assisting
Medical Laboratory Technology
Medical Sonography
Occupational Therapy Assistant
Pharmacy Technology
Radiography
Surgical Technology
Surgical Technology Bridge
Veterinary Medical Technology

Diplomas

Dental Assisting
Pharmacy Technology

Certificates

Phlebotomy

Articulation

Associate Degree Nursing Regionally Increasing Baccalaureate Nursing (RIBN) Option/ Western Carolina University

Dental Assisting

This curriculum prepares individuals to assist the dentist in the delivery of dental treatment and to function as integral members of the dental team while performing chair-side and related office and laboratory procedures.

Course work includes instruction in general studies, biomedical sciences, dental sciences, clinical sciences, and clinical practice. A combination of lecture, laboratory, and clinical experiences provide students with knowledge in infection/hazard control, radiography, dental materials, preventive dentistry, and clinical procedures.

Graduates of this program may be eligible to take the Dental Assisting National Board Examination to become Certified Dental Assistants. As Dental Assistant IIs, defined by the dental laws of North Carolina, graduates work in dental offices and other related areas.

This program is accredited by:

American Dental Association Commission on Dental Accreditation (CODA)

211 East Chicago Avenue

Chicago, IL 60611 Phone: (800) 621-8099, Ext. 2705

www.ada.org

Specific Program Requirements:

- 1. General college admission requirements.
- This program has a selective admission process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 3. Acceptable report of medical examination by first day of class.
- Completion of required immunizations by first day of class, including first two doses of Hepatitis B vaccine.
- Students applying to the Dental Assisting program are encouraged to have successfully completed all General Education requirements prior to program admission due to the rigorous nature of the Dental Assisting curriculum.

Dental Assisting Diploma (D45240)

Courses requiring a grade of "C" or better: ACA, BIO, DEN

| First Semester (Fall) | | Credits |
|-----------------------|--------------------------|---------|
| ACA-115 | Success and Study Skills | 1 |
| DEN-100 | Basic Orofacial Anatomy | 2 |
| DEN-101 | Preclinical Procedures | 7 |
| DEN-103 | Dental Sciences | 2 |
| DEN-111 | Infection/Hazard Control | 2 |
| DEN-112 | Dental Radiography | 3 |

| Second Se | mester (Spring) | |
|-------------|------------------------------------|----|
| DEN-102 | Dental Materials | 4 |
| DEN-104 | Dental Health Education | 3 |
| DEN-105 | Practice Management | 2 |
| DEN-106 | Clinical Practice I | 6 |
| COM-120 | Intro Interpersonal Communications | 3 |
| Third Seme | ester (Summer) | |
| BIO-161 | Intro to Human Biology1 | 3 |
| DEN-107 | Clinical Practice II | 5 |
| PSY-150 | General Psychology | 3 |
| Total Credi | t Hours Required | 46 |

For students planning to pursue a Dental Hygiene AAS, BIO 163 is recommended in place of BIO 161.

Dental Hygiene

This curriculum provides individuals with the knowledge and skills to assess, plan, implement, and evaluate dental hygiene care for the individual and the community.

Students will learn to prepare the operatory, take patient histories, note abnormalities, plan care, teach oral hygiene, clean teeth, take x-rays, apply preventive agents, complete necessary chart entries, and perform other procedures related to dental hygiene care.

Graduates of this program may be eligible to take national and state/regional examinations for licensure, which are required to practice dental hygiene. Employment opportunities include dental offices, clinics, schools, public health agencies, industry, and professional education.

This program is accredited by:

American Dental Association Commission on Dental Accreditation (CODA)

211 East Chicago Avenue Chicago, IL 60611

Phone: (800) 621-8099, Ext. 2705

www.ada.org

Specific Program Requirements:

- 1. General college admission requirements.
- This program has a selective admission process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- High school chemistry or equivalent from A-B Tech or other regionally-accredited college.
- Acceptable report of medical examination by the first day of class.
- Completion of required immunizations by first day of class, including first two doses of Hepatitis B vaccine.

- 6. Students applying to the Dental Hygiene program are encouraged to have successfully completed all General Education requirements prior to program admission due to the rigorous nature of the Dental Hygiene curriculum.
- The North Carolina Board of Dental Examiners may deny a license to individuals convicted of a felony or any other crime involving moral turpitude.

Dental Hygiene Associate in Applied Science Degree (A45260)

Courses requiring a grade of "C" or better: ACA, BIO, CHM, DEN

| Droannliaat | tion Requirement | Credit |
|-------------|-----------------------------------|--------|
| BIO-163 | Basic Anatomy & Physiology | 5 |
| CHM-130 | General, Organic and Biochemistry | 3 |
| CHM-130A | , | 3 1 |
| CHIVI-13UA | Gen, Org & Biochem Lab | I |
| First Semes | ter (Fall) | |
| ACA-115 | Success and Study Skills | 1 |
| DEN-110 | Orofacial Anatomy | 3 |
| DEN-111 | Infection/Hazard Control | 2 |
| DEN-112 | Dental Radiography | 3 |
| DEN-120 | Dental Hy Preclinic Lec | 2 |
| DEN-121 | Dental Hygiene Precl Lab | 2 |
| Second Ser | nester (Spring) | |
| BIO-175 | General Microbiology | 3 |
| DEN-124 | Periodontology | 2 |
| DEN-125 | Dental Office Emergencies | 1 |
| DEN-130 | Dental Hygiene Theory I | 2 |
| DEN-131 | Dental Hygiene Clinic I | 3 |
| DEN-223 | Dental Pharmacology | 2 |
| ENG-111 | Writing and Inquiry | 3 |
| Third Seme | ster (Summer) | |
| COM-120 | Intro Interpersonal Communication | 3 |
| DEN-123 | Nutrition/Dental Health | 2 |
| DEN-140 | Dental Hygiene Theory II | 1 |
| DEN-141 | Dental Hygiene Clinic II | 2 |
| DEN-222 | General & Oral Pathology | 2 |
| Fourth Sem | ester (Fall) | |
| DEN-220 | Dental Hygiene Theory III | 2 |
| DEN-221 | Dental Hygiene Clinic III | 4 |
| DEN-224 | Materials and Procedures | 2 |
| DEN-232 | Community Dental Health Part A | 2 |

SOC-240

Social Psychology

| Fifth Semester (Spring) | | |
|-----------------------------|--------------------------------|----|
| DEN-230 | Dental Hygiene Theory IV | 1 |
| DEN-231 | Dental Hygiene Clinic IV | 4 |
| DEN-232 | Community Dental Health Part B | 1 |
| DEN-233 | Professional Development | 2 |
| HUM-115 | Critical Thinking | 3 |
| Total Credit Hours Required | | 72 |

Medical Assisting

The Medical Assisting curriculum prepares multiskilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

The Associate Degree program in Medical Assisting is accredited by the Commission of Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of Medical Assisting Education Review Board (MAERB). Program criteria are governed by the Medical Assisting Education Review Board (MAERB). A student must be a graduate of a CAAHEP-accredited Medical Assisting program to be eligible to sit for the American Association of Medical Assistants' certification examination to become Certified Medical Assistants. Graduates from the diploma program will be eligible to sit for the certification exam when the program receives certification through CAAHEP.

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

9355 - 113th St. N, #7709 Seminole, FL 33775 Phone: (727) 210-2350 Fax: (727) 210-2354 www.caahep.org

Medical Assisting Education Review Board (MAERB)

20 N. Wacker Dr., Ste. 1575 Chicago, IL 60606 Phone: (800) 228-2262 www.maerb.org

3

Specific Program Requirements:

- 1. General college admission requirements.
 - a. Complete College application for admission
 - b. Complete the Medical Assisting application for the limited/capped program admission
- This program has a limited admission process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 3. Complete College Placement Test.
- 4. High school units: Algebra and Biology strongly recommended.
- Students applying to the Medical assisting program are encouraged to have successfully completed MED 116.
- Acceptable reports of medical examinations by the first day of second semester.
- 7. Satisfactory completion of required immunizations by the first day of second semester.
- 8. Criminal background checks and drug screenings will be required prior to admissions to clinical sites that mandate the screenings.
- Current Red Cross CPR/AED for the Professional Rescuer and Health Care Provider certification by the first day of fifth semester.

Medical Assisting Associate in Applied Science Degree (A45400)

Courses requiring a grade of "C" or better: CIS and MED

| First Semester (Fall) | | Credits |
|-----------------------|----------------------------------|---------|
| ENG-111 | Writing and Inquiry | 3 |
| MED-110 | Orientation to Medical Assisting | 1 |
| MED-116 | Intro to A & P | 4 |
| MED-118 | Medical Law and Ethics | 2 |
| MED-121 | Medical Terminology I | 3 |
| MED-130 | Admin Office Procedures I | 2 |
| MED-138 | Infection/Hazard Control | 2 |
| | | |

Second Semester (Spring)

| MED-122 | Medical Terminology II | 3 |
|---------|---------------------------|---|
| MED-131 | Admin Office Procedure II | 2 |
| MED-140 | Exam Room Procedures I | 5 |
| MED-272 | Drug Therapy | 3 |
| MED-182 | CPR First Aid & Emergency | 2 |

Third Semester (Summer)

| CIS-110 | Introduction to Computers | 3 |
|---------|-----------------------------------|---|
| COM-120 | Intro Interpersonal Communication | 3 |
| MAT-110 | Mathematical Measurement | 3 |
| MED-270 | Symptomatology | 3 |
| MED-274 | Diet Therapy and Nutrition | 3 |

| Fourth Semester (Fall) | Fourth | Semester | (Fall) |
|------------------------|--------|----------|--------|
|------------------------|--------|----------|--------|

| Total Credit Hours Required | | 74 | |
|-----------------------------|-----------------------------|----|--|
| PSY-150 | General Psychology | 3 | |
| MED-262 | Clinical Perspectives | 1 | |
| MED-260 | Clinical Externship | 5 | |
| HUM-115 | Critical Thinking | 3 | |
| Fifth Semester (Spring) | | | |
| SPA-120 | Spanish for the Workplace | 3 | |
| MED-240 | Exam Room Procedures II | 5 | |
| MED-230 | Admin Office Procedures III | 2 | |
| MED-150 | Laboratory Procedures I | 5 | |

Medical Laboratory Technology

This curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and immunohematology that may be used in the maintenance of health and diagnosis/treatment of disease.

Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance and reporting/recording and interpreting findings involving tissues, blood, and body fluids.

Graduates may be eligible to take the examination given by the Board of Certification of the American Society for Clinical Pathology. Employment opportunities include laboratories in hospitals, medical offices, industry, and research facilities.

This program is accredited by:

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

5600 N River Rd. Suite 720 Rosemont, IL 60018 Phone: (773) 714-8880

www.naacls.org

Specific Program Requirements:

- 1. General college admission requirements.
- 2. High school units:
 - a. Completion of high school-level chemistry or college-level Chemistry 092 required with grade of C or higher.
 - b. Biology strongly recommended.
- 3. This program has a selective admission process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limited-programs
- Acceptable reports of medical examinations by first day of MLT 252 Practicum I.
- 5. Satisfactory completion of required immunizations by first day of MLT 252 Practicum I.

- Criminal background checks, drug screens, and seasonal flu vaccines are required prior to admission to clinical sites.
- 7. Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification by the first day of MLT 252 Practicum I.

Medical Laboratory Technology Associate in Applied Science Degree (A45420)

Courses requiring a grade of "C" or better: BIO, CHM, and MLT

| First Semes | Credits | | |
|-----------------------------|--|---|--|
| BIO-163 | Basic Anatomy & Physiology | 5 | |
| CHM-130 | Gen, Org & Biochemistry | 3 | |
| CHM-130A | Gen, Org & Biochem Lab | 1 | |
| MAT-110 | Mathematical Measurement | 3 | |
| MLT-110 | Intro to MLT | 3 | |
| MLT-111 | Urinalysis & Body Fluids | 2 | |
| MLT-140 | Intro to Microbiology | 3 | |
| Second Sen | nester (Spring) | | |
| ENG-111 | Writing and Inquiry | 3 | |
| MLT-120 | Hematology/Hemostasis I | 4 | |
| MLT-126 | Immunology and Serology | 2 | |
| MLT-130 | Clinical Chemistry I | 4 | |
| MLT-240 | Special Clin Microbiology | 3 | |
| Third Semester (Summer) | | | |
| MLT-127 | Transfusion Medicine | 3 | |
| MLT-252 | MLT Practicum I (Phlebotomy) | 2 | |
| Fourth Semester (Fall) | | | |
| CIS-110 | Introduction to Computers | 3 | |
| MLT-254 | MLT Practicum I (Blood Bank) | 4 | |
| MLT-255 | MLT Practicum I (Microbiology) | 5 | |
| MLT-261 | MLT Practicum II (Donor Therapy) | 1 | |
| PSY-150 | General Psychology | 3 | |
| Fifth Semester (Spring) | | | |
| ENG-114 | Prof Research & Reporting | 3 | |
| HUM-115 | Critical Thinking | 3 | |
| MLT-215 | Professional Issues | 1 | |
| MLT-265 | MLT Practicum II (Hematology) | 5 | |
| MLT-275 | MLT Practicum III (Clinical Chemistry) | 5 | |
| Total Credit Hours Required | | | |

Medical Sonography

The Medical Sonography curriculum provides knowledge and clinical skills in the application of high frequency sound waves to image internal body structures.

Course work includes physics, cross-sectional anatomy, abdominal, introductory vascular, and obstetrical/gynecological sonography. Competencies are attained in identification of normal anatomy and pathological processes, use of equipment, fetal growth and development, integration of related imaging, and patient interaction skills.

Graduates of accredited programs may be eligible to take examinations in ultrasound physics and instrumentation and specialty examinations administered by the American Registry of Diagnostic Medical Sonographers (ARDMS) and find employment in clinics, physicians' offices, mobile services, hospitals, and educational institutions.

Graduates will be eligible to take all ARDMS examinations in general and vascular concentrations.

The Diagnostic Medical Sonography Program is accredited in general and vascular concentrations. The following are the accrediting agencies:

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

9355 - 113th St. N, #7709 Seminole, FL 33775 Phone: (727) 210-2350 Fax: (727) 210-2354 www.caahep.org

Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS)

6021 University Boulevard, Suite 500 Ellicott City, MD 21043 Phone: (443) 973-3251 www.jrcdms.org

Specific Program Requirements:

- $1. \ \ General\ college\ admission\ requirements.$
- This program has a selective selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 3. Keyboarding skills are highly recommended.
- 4. Final admission to the Medical Sonography program shall be contingent upon documentation of physical and emotional health that would provide evidence indicative of the applicant's ability to provide safe care to the public. Completed medical and immunization records must be submitted before classes begin.
- Either first dose of Hepatitis B vaccine or completion of series.

Catalog 2020-2021

- 6. Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is a prerequisite to full admission and must be maintained throughout the program. This certification must include hands-on skills components, AED use, and other lifesaving skills. Course certifications from any other providers will not be accepted.
- 7. Satisfactory completion of required immunizations prior to admission to clinical sites. Affiliated clinical sites for Sonography will require an on boarding process, which will include a criminal background check and drug screen prior to the term in which the first clinical experience will occur. If any clinical facility refuses to allow the student to participate in clinical experiences, for any reason, the student will not be able to progress in the program.
- 8. Sonography students will be required to complete clinical rotations that may require them to travel as much as two hours from campus.
- 9. Students applying to the Medical Sonography program must have successfully completed BIO 163 (or advisor-approved substitution) ENG 111, and MAT 152 with a "C" or better prior to program application. Students applying to the Medical Sonography program must have successfully completed PHY-125 with a "C" or better prior to full acceptance to the program. Students applying to the Medical Sonography program are encouraged to have successfully completed: COM 120, PHI-240, and PSY-150 prior to program admission due to the rigorous nature of the Medical Sonography curriculum.

Medical Sonography Associate in Applied Science Degree (A45440)

Courses requiring a grade of "C" or better: BIO, COM, ENG, MAT, PHY, and SON

| Pre-applica | ation Requirements | Credits |
|-------------|-----------------------------------|---------|
| BIO-163 | Basic Anatomy and Physiology | 5 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-152 | Statistical Methods I | 4 |
| Preadmissi | on Requirements | |
| PHY-125 | Health Sciences Physics | 4 |
| First Semes | ster (Fall) | |
| COM-120 | Intro Interpersonal Communication | 3 |
| SON-110 | Intro to Sonography | 3 |
| SON-111 | Sonographic Physics | 4 |
| SON-130 | Abdominal Sonography I | 3 |

| Second Semester (Spring) | | | |
|--------------------------|---------------------------|----|--|
| PSY-150 | General Psychology | 3 | |
| SON-120 | SON Clinical Ed I | 5 | |
| SON-131 | Abdominal Sonography II | 2 | |
| SON-140 | Gynecological Sonography | 2 | |
| SON-241 | Obstetrical Sonography I | 2 | |
| Third Semester (Summer) | | | |
| SON-121 | SON Clinical Ed II | 5 | |
| SON-222 | Selected SON Clinical Ed | 2 | |
| Fourth Semester (Fall) | | | |
| SON-220 | SON Clinical Ed III | 8 | |
| SON-242 | Obstetrical Sonography II | 2 | |
| SON-250 | Vascular Sonography | 2 | |
| Fifth Semester (Spring) | | | |
| SON-221 | SON Clinical Ed IV | 8 | |
| SON-225 | Case Studies | 1 | |
| SON-289 | Sonographic Topics | 2 | |
| PHI-240 | Introduction to Ethics | 3 | |
| Total Credit | Hours Required | 76 | |

Program total includes 12 credit hours of successful completion of BIO 163, ENG 111, and MAT 152 with a grade of "C" or better prior to application and 4 hours of successful completion of PHY 125 with a grade of "C" or better as a prerequisite to full admission into the Medical Sonography Program

Nursing

Associate Degree Nursing Option

The Associate Degree Nursing (ADN) curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

Upon completion of the Associate Degree Nursing Program and licensure, the graduate will:

- Demonstrate skills necessary to provide safe, quality care
- 2. Demonstrate knowledge necessary for professional Nursing practice
- 3. Identify as a nurse committed to being a client advocate, who is caring and culturally competent
- Utilize informatics and evidence based data to provide Nursing care to clients
- 5. Demonstrate behaviors that reflect integrity, responsibility, and ethical practices
- 6. Apply the principles of interdisciplinary team management

The Asheville-Buncombe Technical Community College Associate Degree Nursing program holds pre-accreditation status from the National League for Nursing Commission for Nursing Education Accreditation, located at 2600 Virginia Avenue, NW, Washington, DC, 20037. Holding pre-accreditation status does not guarantee that initial accreditation by NLN CNEA will be received. The Associate Degree of Nursing program is approved by the North Carolina Board of Nursing (NCBON).

North Carolina Board of Nursing

PO Box 2129

Raleigh, NC 27602

Phone (919) 782-3211

www.ncbon.com

Specific Program Requirements:

- 1. General college admission requirements.
- High School units (as evidenced by proof of high school graduation, high-school equivalent, or earned credits from a post-secondary institution):
 - a. Chemistry and Biology are strongly suggested
 - b. Algebra is highly recommended
- 3. This program has a selective selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 4. Final admission to the ADN program shall be contingent upon documentation of physical and emotional health that would provide evidence indicative of the applicant's ability to provide safe nursing care to the public; this is accomplished by submission of a nursing department-issued physical form that has been completed by a licensed health care provider (physician, PA, or NP).
- 5. To be eligible for admission, all nursing program applicants must submit the following documentation with a completed application:
 - a. Hold a documented, current, unrestricted credential as a Nurse Aide I (NAI) on the NC Nurse Aide I Registry (NCNAR) from the NC Division of Health Service Regulation (NC DHSR). A copy of the current listing on the NC DHSR website will be acceptable documenta-

- tion. (https://www.ncnar.org/verify_listings1. isp#verify)
- Satisfactory completion of required immunizations.
- Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is a prerequisite to full admission and must be maintained throughout the program. This certification must include hands-on skills components, AED use, and other lifesaving skills. Course certifications from any other providers will not be accepted. Students applying to the ADN program must have successfully completed Anatomy and Physiology I and II (BIO 168 & 169) with a "C" or better prior to full acceptance into the Associate Degree Nursing Program. Students are encouraged to have successfully completed: BIO 175, ENG 111, ENG 112 or ENG 114, PSY 150, PSY 241, and HUM 115, due to the rigorous nature of the ADN curriculum. See your advisor for acceptable general education substitutes.
- 7. Affiliated clinical sites for nursing will require an on boarding process, which will include a criminal background check and drug testing prior to participation in the clinical component. If any clinical facility refuses to allow the student to participate in clinical experiences, for any reason, the student will not be able to progress in the program. Applicants for initial licensure in NC must also have a criminal background check.
- 8. Admission with advanced standing is subject to space available in the clinical component of the nursing program. Students who begin their nursing education at A-B Tech have preference in admission over students requesting transfer into the program. Space will be allotted to transfer students only when no students who have previously enrolled in the A-B Tech ADN Program are requesting and have qualified for re-entry.

Associate Degree Nursing Associate in Applied Science Degree (A45110)

Fall Admission

Courses requiring a grade of "C" or better: ACA, BIO and NUR

| Preadmiss | ion Requirements | Credits |
|------------|---------------------------|-------------------------------|
| BIO-168 | Anatomy and Physiology I | 4 |
| BIO-169 | Anatomy and Physiology II | 4 |
| First Seme | ster (Fall) | |
| ACA-111 | College Student Success | 1 |
| BIO-175 | General Microbiology | 3 |
| NUR-111 | Intro to Health Concepts | 8 |
| NUR-117 | Pharmacology | 2 |
| Second Se | mester (Spring) | |
| ENG-111 | Writing and Inquiry | 3 |
| NUR-112 | Health-Illness Concepts | 5 |
| NUR-114 | Holistic Health Concepts | 5 Catalog 2020-2021 |

| Third Seme | ster (Summer) | |
|---------------------|---------------------------|----|
| NUR-212 | Health System Concepts | 5 |
| PSY-150 | General Psychology | 3 |
| Fourth Sem | ester (Fall) | |
| ENG-114 | Prof Research & Reporting | 3 |
| NUR-113 | Family Health Concepts | 5 |
| NUR-211 | Health Care Concepts | 5 |
| PSY-241 | Developmental Psychology | 3 |
| Fifth Semes | ter (Spring) | |
| NUR-213 | Complex Health Systems | 10 |
| HUM-115 | Critical Thinking | 3 |
| Total Credit | Hours Required | 72 |

Program total includes 8 credit hours for successful completion of BIO 168 and BIO 169 with a "C" or better in each course, as prerequisites to full admission into the ADN program.

Spring Admission

Courses requiring a grade of "C" or better: ACA, BIO and NUR

| Preadmiss | ion Requirements | Credits |
|-------------|-----------------------------------|---------|
| BIO-168 | Anatomy and Physiology I | 4 |
| BIO-169 | Anatomy and Physiology II | 4 |
| First Seme | ster (Spring) | |
| ACA-111 | College Student Success | 1 |
| BIO-175 | General Microbiology | 3 |
| NUR-111 | Intro to Health Concepts | 8 |
| NUR-117 | Pharmacology | 2 |
| Second Se | mester (Fall) | |
| ENG-111 | Writing and Inquiry | 3 |
| NUR-112 | Health-Illness Concepts | 5 |
| NUR-114 | Holistic Health Concepts | 5 |
| Third Seme | ester (Spring) | |
| ENG-114 | Professional Research & Reporting | 3 |
| NUR-113 | Family Health Concepts | 5 |
| NUR-211 | Health Care Concepts | 5 |
| PSY-150 | General Psychology | 3 |
| Fourth Sen | nester (Summer) | |
| NUR-212 | Health System Concepts | 5 |
| PSY-241 | Developmental Psychology | 3 |
| Fifth Seme | ster (Fall) | |
| NUR-213 | Complex Health Systems | 10 |
| HUM-115 | Critical Thinking | 3 |
| Total Credi | t Hours Required | 72 |

Program total includes 8 credit hours for successful completion of BIO 168 and BIO 169 with a "C" or better in each course, as prerequisites to full admission into the ADN program.

Associate Degree Nursing Regionally Increasing Baccalaureate Nurses (RIBN) Option

The RIBN option is an A.A.S. Dual Enrollment track offered in collaboration with Western Carolina University (WCU). Students are accepted into and take courses at both A-B Tech and WCU during enrollment in the RIBN option.

The A-B Tech Associate Degree Nursing is approved by:

North Carolina Board of Nursing

P.O. Box 2129 Raleigh, NC 27602 Phone: (919)-782-3211 www.ncbon.com

The Western Carolina University Nursing program is accredited by:

The Commission on Collegiate Nursing Education

One DuPont Circle, NW Suite 530

Washington, DC 20036 Phone: (202) 887-6791 www.aacn.nche.edu

Specific Track Requirements:

- Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is a prerequisite to full admission and must be maintained throughout the program. This certification must include hands-on skills components, AED use, and other lifesaving skills. Course certifications from any other providers will not be accepted.
- 2. Hold a documented, current, unrestricted credential as a Nurse Aide I (NAI) on the NC Nurse Aide I Registry (NCNAR) from the NC Division of Health Service Regulation (NC DHSR). A copy of the current listing on the NC DHSR website will be acceptable documentation. (https://www.ncnar.org/verify_listings1.jsp#verify)
- 3. Affiliated clinical sites for nursing will require an on boarding process, which will include a criminal background check and drug testing prior to participation in the clinical component. If any clinical facility refuses to allow the student to participate in clinical experiences, for any reason, the student will not be able to progress in the ADN program and RIBN option. Applicants for initial licensure in North Carolina must also have a criminal background check.
- Maintain dual admission and continued enrollment at both A-B Tech and WCU by completing at least one WCU course each semester (Fall / Spring) during years 1 through 3.

- Maintain a GPA of 2.25 or greater to progress in the RIBN option, with a minimum grade of "C" in all coursework.
- 6. Home school will be A-B Tech years 1, 2, and 3.
- Year 1: enroll in general education courses at A-B Tech and WCU as advised by the RIBN Nursing Student Advisor
- 8. Year 2 and 3: enroll in Associate Degree Nursing courses at A-B Tech and continue enrollment in WCU courses as advised by RIBN Nursing Student Advisor.
- 9. Year 4: home school will be WCU
- 10. Successfully pass NCLEX RN to progress to year 4
- 11. See the RIBN Student Services Advisor (SSA) for the recommended course sequence.

LPN to ADN Advanced Placement Option

The Licensed Practical Nurse (LPN) to Associate Degree Nursing (ADN) advanced placement curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this option are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

Upon completion of the LPN to ADN Advanced Placement Option and licensure, the graduate will:

- 1. Demonstrate skills necessary to provide safe, quality care
- 2. Demonstrate knowledge necessary for professional Nursing practice
- 3. Identify as a nurse committed to being a client advocate, who is caring and culturally competent
- 4. Utilize informatics and evidence based data to provide Nursing care to clients
- 5. Demonstrate behaviors that reflect integrity, responsibility, and ethical practices
- 6. Apply the principles of interdisciplinary team management

The Asheville-Buncombe Technical Community College Associate Degree Nursing program holds pre-accreditation status from the National League for Nursing Commission for Nursing Education Accreditation, located at 2600 Virginia Avenue, NW, Washington, DC, 20037. Holding pre-accreditation status does not guarantee that initial accreditation by

NLN CNEA will be received. The Associate Degree of Nursing program is approved by the North Carolina Board of Nursing (NCBON).

North Carolina Board of Nursing

PO Box 2129

Raleigh, NC 27602

Phone (919) 782-3211

www.ncbon.com

Specific Option Requirements:

- 1. General college admission requirements.
- 2. This option has a selective selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 3. Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is a prerequisite to full admission and must be maintained throughout the program. This certification must include hands-on skills components, AED use, and other lifesaving skills. Course certifications from any other providers will not be accepted.
- Current, unrestricted license to practice as an LPN in the state of North Carolina is a prerequisite to admission and must be maintained throughout the ADN program.
- 5. Affiliated clinical sites for nursing will require an on boarding process, which will include a criminal background check and drug testing prior to participation in the clinical component. If any clinical facility refuses to allow the student to participate in clinical experiences, for any reason, the student will not be able to progress in the ADN program. Applicants for initial licensure in North Carolina must also have a criminal background check.

Licensed Practical Nurses who are enrolled in the ADN Advanced Placement option will receive credit for NUR 111, NUR 117, NUR 112, and NUR 114. Licensed Practical Nurses in the LPN to ADN Advanced Placement option must complete all general education courses required in the Associate Degree Nursing program prior to the application deadline. These courses include: BIO 168, BIO 169, BIO 175, ENG 111, ENG 112 or ENG 114, PSY 241, and HUM 115. See your advisor for acceptable general education substitutes.

LPN to ADN Advanced Placement Option

Credit is given for NUR 111, NUR 117, NUR 112, and NUR 114 (20 hours); an additional 25 credit hours are required.

Courses requiring a grade of "C" or better: NUR

| Spring Sen | nester | Credits |
|--------------------|------------------------|---------|
| NUR-113 | Family Health Concepts | 5 |
| NUR-211 | Health Care Concepts | 5 |
| Fall Semes | ter | |
| NUR-212 | Health System Concepts | 5 |
| Spring Sen | nester | |
| NUR-213 | Complex Health Systems | 10 |
| Total Credi | t Hours Required | 25 |

Occupational Therapy Assistant <u>Associate in Applied Science (A45500)</u>

The Occupational Therapy Assistant (OTA) curriculum prepares individuals to work under the supervision of a registered/licensed occupational therapist in screening, assessing, planning, and implementing treatment and documenting progress for clients receiving occupational therapy services.

Course work includes human growth and development, conditions which interfere with activities of daily living, theory and process of occupational therapy, individual/group treatment activities, therapeutic use of self, activity analysis, and grading/adapting activities and environments.

Graduates may be eligible to take the national certification examination for practice as a certified occupational therapy assistant. Employment opportunities include hospitals, rehabilitation facilities, long-term/extended-care facilities, sheltered workshops, schools, home health programs, and community programs.

The Asheville-Buncombe Technical Community College OTA program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Blvd, Suite 200, Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its web address is www.acoteonline.org. Graduates of the program will be eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT) www.nbcot.org. After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, all states require licensure in order to practice; however, state licenses are usually based on the results of the

NBCOT Certification Examination. Note that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure

Specific Program Requirements:

- 1. General college admission requirements.
- This program has a selective selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- Final admission to the OTA program shall be contingent upon documentation of physical and emotional health that would provide evidence indicative of the applicant's ability to provide safe care to the public.
- Completed medical and immunization records must be submitted before fieldwork begins.
- 5. Satisfactory completion of required immunizations prior to admission to fieldwork sites. Affiliated fieldwork sites for OTA will require an on boarding process, which will include a criminal background check and drug screen prior to the term in which the first fieldwork experience will occur. If any fieldwork facility refuses to allow the student to participate in fieldwork experiences, for any reason, the student will not be able to progress in the program.
- 6. Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is required prior to beginning OTA 161 in the second semester and must be maintained throughout the program. This certification must include hands-on skills demonstration of one and two rescuer adult, child, and Infant CPR, and AED use. Course certifications from any other providers will not be accepted.
- Students accepted into the program must attend a required program orientation session which will be scheduled in spring of the year they intend to enter the program.
- 8. Students applying to the OTA program must complete a minimum of 8 hours of observations in two different type occupational therapy settings and submit the completed observation forms to the OTA program chairperson at the required program orientation in the spring.
- 9. Students applying to the OTA program must successfully complete ACA 115, BIO-168, and MED with a "C" or better prior to full acceptance into the program.
- 10. Students applying to the OTA are encouraged to have successfully completed: BIO 169, ENG 111, ENG 112, PSY 150, PSY 241, PSY 281, COM 120, and HUM 115 prior to program admission due to the rigorous nature of the OTA curriculum.
- 11. OTA students will be required to complete field-work experiences, which may require them to travel as much as 1-1/2 hours from campus.

12. Students must complete all graduation requirements in a timely manner. This includes completion of all Level II fieldwork within 18 months following completion of the didactic portion of the program.

Occupational Therapy Assistant Associate in Applied Science Degree (A45500)

Courses requiring a grade of "C" or better: ACA, BIO, COM, ENG, HUM, MED, OTA, PSY

| Preadmission Requirements | Credits |
|---|---------|
| ACA-115 Success & Study Skills | 1 |
| MED-120 Survey of Med Terminology | 2 |
| BIO-168 Anatomy and Physiology I | 4 |
| First Semester (Fall) | |
| BIO-169 Anatomy and Physiology II | 4 |
| ENG-111 Writing and Inquiry | 3 |
| OTA-110 Fundamentals of OT | 3 |
| OTA-120 OT Media I | 2 |
| OTA-140 Professional Skills I | 1 |
| PSY-150 General Psychology | 3 |
| Second Semester (Spring) | |
| ENG-112 Writing/Research in the Disc | 3 |
| OTA-130 Assessment Skills | 3 |
| OTA-135 Kinesiology | 1 |
| OTA-170 Physical Conditions | 3 |
| OTA-161 Fieldwork Placement 1 | 1 |
| PSY-241 Developmental Psychology | 3 |
| Third Semester (Summer) | |
| COM-120 Intro Interpersonal Communication | 3 |
| OTA-162 Fieldwork I Placement 2 | 1 |
| OTA-163 Fieldwork I Placement 3 | 1 |
| OTA-240 Professional Skills II | 1 |
| PSY-281 Abnormal Psychology | 3 |
| Fourth Semester (Fall) | |
| HUM-115 Critical Thinking | 3 |
| OTA-150 Peds Concepts & Interventions | 3 |
| OTA-180 Psychosocial Conditions | 3 |
| OTA-220 OT Media II | 3 |
| OTA-245 Professional Skills III | 1 |
| OTA-250 Adult Concepts & Interventions | 3 |
| Fifth Semester (Spring) | |
| OTA-260 Fieldwork II-Placement 1 | 6 |
| OTA-261 Fieldwork II-Placement 2 | 6 |
| OTA-280 Professional Transitions | 11 |

Total Credit Hours Required

Pharmacy Technology

The Pharmacy Technology Program prepares individuals to assist the pharmacist in duties that a technician can legally perform and to function within the boundaries prescribed by the pharmacist and the employment agency.

Students will prepare prescription medications, mix intravenous solutions and other specialized medications, update patient profiles, maintain inventories, package medications in unit-dose or medcard form, and gather data used by pharmacists to monitor drug therapy.

Employment opportunities include retail, hospitals, nursing homes, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities. Graduates from the program may be eligible to take the National Certification Examination to become a certified pharmacy technician.

This program is accredited by:

ASHP-American Society of Health-System Pharmacists

7272 Wisconsin Avenue Bethesda, Maryland 20814 Phone: 866-279-0681 www.ashp.org

Specific Program Requirements:

- I. General college admission requirements.
- 2. High school units:

75

- a. High school-level chemistry or college-level Chemistry 092 recommended.
- b. Biology strongly recommended.
- 3. This program has a selective selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limited-programs
- Acceptable reports of medical examinations by first day of PHM 132 or PHM 134.
- 5. Satisfactory completion of required immunizations by first day of PHM 132 or PHM 134.
- Criminal background checks, drug screens, and seasonal flu vaccines are required prior to admission to clinical sites.

Pharmacy Technology Associate in Applied Science Degree (A45580)

Courses requiring a grade of "C" or better: ACA, PHM, and BIO

| First Sem | ester (Fall) | Credits |
|-----------|---------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CIS-110 | Introduction to Computers | 3 |
| PHM-110 | Introduction to Pharmacy | 3 |
| PHM-111 | Pharmacy Practice I | 4 |
| PHM-115 | Pharmacy Calculations | 3 |
| PHM-120 | Pharmacology I | 3 |

| Second Se | mester (Spring) | | Fourth Sem | nester (Fall) | |
|-------------|-----------------------------------|----|-------------|----------------------------|--------|
| BIO-161 | Intro to Human Biology | 3 | CIS-110 | Introduction to Computers | 3 |
| PHM-118 | Sterile Products | 4 | PHM-132 | Pharmacy Clinical | 2 |
| PHM-125 | Pharmacology II | 3 | | | |
| PHM-140 | Trends in Pharmacy | 2 | Fifth Seme | ster (Spring) | |
| PHM-155 | Community Pharmacy | 3 | PHM-118 | Sterile Products | 4 |
| PHM-165 | Pharmacy Prof Practice | 2 | PHM-165 | Pharmacy Prof Practice | 2 |
| Third Seme | ester (Summer) | | Sixth Seme | ester (Summer) | |
| COM-120 | Intro Interpersonal Communication | 3 | MAT-143 | Quantitative Literacy | 3 |
| ENG-111 | Writing and Inquiry | 3 | PHM-134 | Pharmacy Clinical | 4 |
| PHM-132 | Pharmacy Clinical | 2 | PSY-150 | General Psychology | 3 |
| Fourth Sem | nester (Fall) | | | | |
| MAT-143 | Quantitative Literacy | 3 | Seventh Se | emester (Fall) | |
| PHM-150 | Hospital Pharmacy | 4 | PHM-150 | Hospital Pharmacy | 4 |
| PHM-160 | Pharm Dosage Forms | 3 | PHM-160 | Pharm Dosage Forms | 3 |
| PHM-134 | Pharmacy Clinical | 4 | | | |
| PSY-150 | General Psychology | 3 | Eighth Sen | nester (Spring) | |
| | , | | HUM-115 | Critical Thinking | 3 |
| Fifth Seme | ster (Spring) | | PHM-138 | Pharmacy Clinical | 8 |
| HUM-115 | Critical Thinking (or PHI 240) | 3 | Total Credi | t Hours Required | 70 |
| PHM-138 | Pharmacy Clinical | 8 | DI | on Tarakarakara Biraka (D) | IEE00\ |
| Total Credi | t Hours Required | 70 | Pnarma | cy Technology Diploma (D4 | 1998U) |

Pharmacy Technology Associate in Applied Science Degree (A45580) - Part Time

Courses requiring a grade of "C" or better: ACA, PHM, and BIO

| First Semes | ster (Fall) | Credits |
|-------------|--|----------|
| ACA-115 | Success & Study Skills | 1 |
| PHM-110 | Introduction to Pharmacy | 3 |
| PHM-111 | Pharmacy Practice I | 4 |
| PHM-115 | Pharmacy Calculations | 3 |
| Second Se | mester (Spring) | |
| BIO-161 | Intro to Human Biology | 3 |
| PHM-120 | Pharmacology I | 3 |
| PHM-125 | Pharmacology II | 3 |
| Third Seme | ester (Summer) | |
| COM-120 | Intro Interpersonal Communication | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| PHM-140 | Trends in Pharmacy | 2 |
| PHM-155 | Community Pharmacy | 3 |
| (PHM 140 ar | nd PHM 155 are taken consecutively in min. | i-mester |

Pharmacy Technology Diploma (D45580)

Courses requiring a grade of "C" or better: ACA, PHM, and BIO

| First Seme | ster (Fall) | Credits |
|-------------|-----------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CIS-110 | Introduction to Computers | 3 |
| PHM-110 | Introduction to Pharmacy | 3 |
| PHM-111 | Pharmacy Practice I | 4 |
| PHM-115 | Pharmacy Calculations | 3 |
| PHM-120 | Pharmacology I | 3 |
| Second Se | mester (Spring) | |
| BIO-161 | Intro to Human Biology | 3 |
| PHM-118 | Sterile Products | 4 |
| PHM-125 | Pharmacology II | 3 |
| PHM-140 | Trends in Pharmacy | 2 |
| PHM-155 | Community Pharmacy | 3 |
| PHM-165 | Pharmacy Prof Practice | 2 |
| Third Seme | ester (Summer) | |
| COM-120 | Intro Interpersonal Communication | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| PHM-134 | Pharmacy Clinical | 4 |
| Total Credi | t Hours Required | 44 |

Pharmacy Technology Diploma (D45580) - Part Time

Courses requiring a grade of "C" or better: ACA, PHM, and BIO

| First Semest | er (Fall) | Credits |
|--------------|---|---------|
| ACA-115 | Success & Study Skills | 1 |
| PHM-110 | Introduction to Pharmacy | 3 |
| PHM-111 | Pharmacy Practice I | 4 |
| PHM-115 | Pharmacy Calculations | 3 |
| Second Sem | ester (Spring) | |
| BIO-161 | Intro to Human Biology | 3 |
| PHM-120 | Pharmacology I | 3 |
| PHM-125 | Pharmacology II | 3 |
| Third Semes | ter (Summer) | |
| COM-120 | Intro Interpersonal Communication | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| PHM-140 | Trends in Pharmacy | 2 |
| PHM-155 | Community Pharmacy | 3 |
| (PHM 140 and | I PHM 155 are taken consecutively in mini-me. | ster |
| format.) | | |

Fourth Semester (Fall)

010 440

| Total Credit | Hours Required | 44 |
|---------------------|---------------------------|----|
| PHM-165 | Pharmacy Prof Practice | 2 |
| PHM-118 | Sterile Products | 4 |
| Fifth Semest | er (Spring) | |
| PHM-134 | Pharmacy Clinical | 4 |
| DUIN 4 4 0 4 | DI 01: 1 1 | |
| CIS-110 | Introduction to Computers | 3 |

Phlebotomy

The Phlebotomy curriculum prepares individuals to obtain blood and other specimens for the purpose of laboratory analysis.

Course work includes proper specimen collection and handling, communication skills, and maintaining patient data.

Graduates may qualify for employment in hospitals, clinics, physicians' offices, and other health care settings and may be eligible for national certification as phlebotomy technicians.

This program is approved by:

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

5600 N. River Rd., Suite 720 Rosemont, IL 60018 Phone: (773) 714-8880

www.naacls.org

Specific Program Requirements:

- 1. General college admission requirements.
- 2. Acceptable reports of medical examinations by first day of class.
- 3. This program has a limited selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 4. Satisfactory completion of required immunizations.
- Criminal background checks, drug screens, and seasonal flu vaccines are required prior to admission to clinical sites.
- 6. Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification by the first day of class.

Phlebotomy Certificate (C45600)

Courses requiring a grade of "C" or better: PBT and PSY

| First Semester (Fall) | | Credits |
|-----------------------|-----------------------|---------|
| PBT-100 | Phlebotomy Technology | 6 |
| PBT-101 | Phlebotomy Practicum | 3 |
| PSY-150 | General Psychology | 3 |
| Total Cred | it Hours Required | 12 |

PBT-100 and PBT-101 are taken in mini-mester format. Students will complete PBT-100 in the first half of the semester and PBT-101 in the second half of the semester.

Radiography

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body.

Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology.

Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

Specific Program Requirements:

- 1. General college admission requirements.
- This program has a selective selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 3. High school biology, high school algebra, and keyboarding skills are highly recommended.

- Final admission to the Radiography program shall be contingent upon documentation of physical and emotional health that would provide evidence indicative of the applicant's ability to provide safe care to the public.
- Completed medical and immunization records must be submitted to the department chair before classes begin.
- Either first dose of Hepatitis B vaccine or completion of series.
- Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is a prerequisite to full admission and must be maintained throughout the program. This certification must include hands-on skills components, AED use, and other lifesaving skills. Course certifications from any other providers will not be accepted.
- 8. Satisfactory completion of required immunizations prior to admission to clinical sites. Affiliated clinical sites for Radiography will require an on boarding process, which will include a criminal background check and drug testing at cost to the student prior to the term in which the first clinical experience will occur. If any clinical facility refuses to allow the student to participate in clinical experiences, for any reason, the student will not be able to progress in the program.
- 9. Students applying to the Radiography program must have successfully completed BIO 163 (or BIO 168 and BIO 169) with a "C" or better prior to full acceptance into the Radiography program.
- 10. Students applying to the Radiography program are encouraged to have successfully completed: MAT 143, ENG 111, COM 120, HUM 115, and SOC 225 prior to program admission due to the rigorous nature of the Radiography curriculum.

This program is accredited by:

Joint Review Committee on Education in Radiologic Technology (JRCERT)

20 N. Wacker Drive, Suite 2850 Chicago, IL 60606-3182 Phone: (312) 704-5300 Fax: (312) 704-5304

www.jrcert.org

Notice: Candidates for certification from the American Registry of Radiologic Technologists (ARRT) must comply with the "Rules of Ethics" contained in the ARRT Standards of Ethics. Any conviction of a crime, including a felony, a gross misdemeanor, or a misdemeanor with the sole exception of speeding and parking violations must be investigated by the ARRT in order to determine eligibility for the certification examination. Additional information may be obtained from the department chairperson or on the ARRT website at www.arrt.org.

Radiography Associate in Applied Science Degree (A45700)

Courses requiring a grade of "C" or better: RAD, BIO

| Preadmiss | ion Requirements | Credi |
|-------------|-----------------------------------|-------|
| BIO-163 | Basic Anat & Physiology | 5 |
| First Seme: | ster (Fall) | |
| ENG-111 | Writing and Inquiry | 3 |
| RAD-110 | Radiography Intro & Patient Care | 3 |
| RAD-111 | RAD Procedures I | 4 |
| RAD-113 | RAD Lab Elective | 1 |
| RAD-151 | RAD Clinical Education I | 2 |
| Second Se | mester (Spring) | |
| COM-120 | Intro Interpersonal Communication | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| RAD-112 | RAD Procedures II | 4 |
| RAD-121 | Image Production I | 3 |
| RAD-161 | RAD Clinical Education II | 5 |
| Third Seme | ester (Summer) | |
| RAD-122 | Image Production II | 2 |
| RAD-141 | Radiation Safety | 2 |
| RAD-171 | RAD Clinical Education III | 3 |
| RAD-281 | RAD Clinical Elective | 1 |
| Fourth Sem | nester (Fall) | |
| RAD-211 | RAD Procedures III | 3 |
| RAD-231 | Image Production III | 2 |
| RAD-251 | RAD Clinical Ed IV | 7 |
| SOC-225 | Social Diversity | 3 |
| Fifth Seme | ster (Spring) | |
| HUM-115 | Critical Thinking | 3 |
| RAD-261 | RAD Clinical Education V | 7 |
| RAD-271 | Radiography Capstone | 3 |
| Total Credi | t Hours Required | 72 |

Program total includes 5 credit hours of successful completion of BIO 163 (or BIO 168/BIO 169) with a grade of "C" or better, as a prerequisite to full admission into the Radiography Program.

Surgical Technology

The Surgical Technology curriculum prepares individuals to assist in the care of the surgical patient in the operating room and to function as a member of the surgical team.

Students will apply theoretical knowledge to the care of patients undergoing surgery and develop skills necessary to prepare supplies, equipment, and instruments; maintain aseptic conditions; prepare patients for surgery; and assist surgeons during operations.

Employment opportunities include labor/delivery/ emergency departments, inpatient/outpatient surgery centers, dialysis units/facilities, physicians' offices, and central supply processing units.

Students of programs accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) are required to take the national certification exam administered by the National Board on Certification in Surgical Technology and Surgical Assisting (NBSTSA) within a four-week period prior to or after graduation.

Specific Program Requirements:

- 1. General College admission requirements.
- This program has a selective selection process. See Selective Allied Health Program Criteria on the Selective and Limited Programs page of the A-B Tech website. www.abtech.edu/selective-limitedprograms
- 3. Final admission to the Surgical Technology program shall be contingent upon documentation of physical and emotional health that would provide evidence indicative of the applicant's ability to provide safe care to the public.
- 4. Satisfactory completion of required immuniza-
- Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is a prerequisite to admission and must be maintained throughout the program.
- Clinical agencies and/or credentialing bodies require criminal background checks and drug screens prior to admission to clinical sites or issuance of credentials.
- Students applying to the Surgical Technology program must successfully complete BIO 168 with a minimum grade of 'C' and are encouraged to have successfully completed: ACA 115, BIO 169, BIO 175, and ENG 111 prior to program admission due to the rigorous nature of the Surgical Technology curriculum.

The Surgical Technology program is accredited by:

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

9355 - 113th St. N, #7709 Seminole, FL 33775 Phone: (727) 210-2350 Fax: (727) 210-2354

www.caahep.org

Upon the recommendation of:

Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA)

6 W. Dry Creek Circle, Suite #110

Littleton, CO 80120

Phone: (303) 694-9262 Fax: (303) 741-3655 www.arcstsa.org

Surgical Technology Associate in Applied Science Degree (A45740)

Courses requiring a grade of "C" or better: ACA, BIO, SUR

| SUR | , 3 3 | , |
|-------------|--------------------------------------|---------|
| Preadmiss | ion Requirements | Credits |
| BIO-168 | Anatomy and Physiology I | 4 |
| First Seme | ster (Fall) | |
| ACA-115 | Success & Study Skills | 1 |
| BIO-169 | Anatomy and Physiology II | 4 |
| ENG-111 | Writing and Inquiry | 3 |
| SUR-110 | Intro to Surg Tech | 3 |
| SUR-111 | Periop Patient Care | 7 |
| Second Se | mester (Spring) | |
| BIO-175 | General Microbiology | 3 |
| SUR-122 | Surgical Procedures I | 6 |
| SUR-123 | Sur Clinical Practice I | 7 |
| Third Seme | ester (Summer) | |
| SUR-134 | Surgical Procedures II | 5 |
| SUR-135 | Sur Clinical Practice II | 4 |
| Fourth Sem | nester (Fall) | |
| COM-120 | Intro to Interpersonal Communication | 3 |
| PSY-150 | General Psychology | 3 |
| SUR-211 | Adv Theoretical Concepts | 2 |
| SUR-212 | SUR Clinical Supplement | 4 |
| Fifth Seme | ster (Spring) | |
| HUM-115 | Critical Thinking | 3 |
| SOC-210 | Introduction to Sociology | 3 |
| SUR-210 | Adv SUR Clinical Practice | 2 |
| SUR-137 | Prof Success Prep | 1 |
| Total Credi | t Hours Required | 68 |

Surgical Technology Bridge Program

The Surgical Technology Bridge program is designed to allow currently certified non-degree surgical technologists to earn an Associate in Applied Science (A.A.S.) degree in Surgical Technology. Surgical technologists enrolled in the bridge program must have completed their surgical technology certificate or diploma at a Commission on Accreditation for Allied Health Education Programs (CAAHEP) accredited surgical technology program. All major courses along with all related and general education course requirements must be met for the Surgical Technology Associate in Applied Science Degree.

Specific Program Requirements:

- 1. General college admission requirements.
 - a. Complete application for admission.
 - b. Successfully complete college placement test.
 - Official transcript of any prior college credit on file with admissions office.
 - d. Diploma or certificate in Surgical Technology from a CAAHEP-accredited program.
- Current American Heart Association (AHA) Basic Life Support (BLS) for Healthcare Providers certification is a prerequisite to admission and must be maintained throughout the program.
- 3. Final admission to the Surgical Technology program shall be contingent upon documentation of physical and emotional health that would provide evidence that is indicative of the applicant's ability to provide safe care to the public.
- 4. Satisfactory completion of required immuniza-
- Clinical agencies and/or credentialing bodies require criminal background checks and drug screens prior to admission to clinical sites.

Copies of 1d. as well as 2-5 must be on file with the Surgical Technology Department.

The CST and Surgical Technology certificate or diploma will provide 33 hours of credit toward the A.A.S. degree. The CST and Surgical Technology certificate or diploma will provide 33 hours of credit toward the A.A.S. degree. Please refer to A-B Tech's transfer policy on page XX of the catalog.

Students must earn a minimum of 25% of all A.A.S. courses (17 credit hours) at A-B Tech.

Surgical Technology, related, and general education courses can be completed at the student's own pace. It is understood that most students are employed full time during their A.A.S. pursuit. Surgical technology course placement is contingent upon seat availability.

Surgical Technology Bridge Program Associate in Applied Science Degree (A45740BR)

Courses requiring a grade of "C" or better: ACA, BIO, SUR

| Preadmissi | on Requirements | Credits |
|---------------------|--------------------------------------|---------|
| BIO-168 | Anatomy and Physiology I | 4 |
| First Semes | eter (Fall) | |
| ACA-115 | Success & Study Skills | 1 |
| ENG-111 | Writing and Inquiry | 3 |
| Second Ser | nester (Spring) | |
| BIO-169 | Anatomy and Physiology II | 4 |
| Third Seme | ster (Summer) | |
| BIO-175 | General Microbiology | 3 |
| Fourth Sem | ester (Fall) | |
| COM-120 | Intro to Interpersonal Communication | 3 |
| PSY-150 | General Psychology | 3 |
| SUR-211 | Adv Theoretical Concepts | 2 |
| BUS-137 | Principle of Management (or SUR 212) | 3 |
| Fifth Semes | ster (Spring) | |
| HUM-115 | Critical Thinking | 3 |
| SOC-210 | Introduction to Sociology | 3 |
| SUR-210 | Adv SUR Clinical Practice | 2 |
| Total Credit | Hours Required | 34 |

Program Total with SUR Diploma/Certificate courses: 33 credits plus above 34 credits = 67

Veterinary Medical Technology

This curriculum is designed to prepare individuals to assist veterinarians in preparing animals, equipment, and medications for examination and surgery; collecting specimens; performing laboratory, radiographic, anesthetic, and dental procedures; assisting in surgery; and providing proper husbandry of animals and their environment.

Course work includes instruction in veterinary anatomy, nutrition, parasitology, pathology, physiology, radiology, terminology, zoology, office practices, laboratory techniques, dentistry, and small and large animal clinical practices.

Graduates of accredited programs may be eligible to take state and national examinations administered by the North Carolina Veterinary Medical Board.

Graduates may be employed in veterinary clinics; diagnostic, research, or pharmaceutical laboratories; zoos; academic institutions; or other areas associated with animal care.

70

| | | | | 117 |
|------|---|------------|---------------------------------------|-----|
| Th | is program is accredited by: | Third Seme | ester (Summer) | |
| | nerican Veterinary Medical Association (AVMA) | VET-131 | Vet Lab Techniques I | 3 |
| | mmittee on Veterinary Technician Education and | VET-133 | Vet Clinical Practices I | 3 |
| | tivities (CVTEA) | VE1 100 | vot omnour ractioes r | · · |
| | 31 North Meacham Road, Suite 100 | | | |
| | haumburg, IL 60173-4360 | Fourth Sem | nester (Fall) | |
| | one: (800) 248-2862 | ENG-114 | Prof Research and Reporting | 3 |
| | x: (847) 925-1329 vw.avma.org | VET-126 | Veterinary Diseases II | 2 |
| VV V | vw.avma.org | VET-211 | Vet Lab Techniques II | 3 |
| Spo | ecific Program Requirements: | VET-213 | Vet Clinical Practice II | 4 |
| 1. | General college admission requirements. | VET-215 | Veterinary Pharmacology | 3 |
| 2. | High school units: a. Chemistry required. | HUM-115 | Critical Thinking (or PHI 240) | 3 |
| | b. Biology and algebra highly recommended. | | , , , , , , , , , , , , , , , , , , , | |
| 3. | This program has a selective selection process. | Eifth Como | otor (Chrina) | |
| | See Selective Allied Health Program Criteria on the | | ster (Spring) | |
| | Selective and Limited Programs page of the A-B | VET-212 | Vet Lab Techniques III | 3 |
| | Tech website. www.abtech.edu/selective-limited- | VET-214 | Vet Clinical Practice III | 4 |
| 4. | programs Final admission to the Veterinary Medical Tech- | VET-217 | Large Animal Clin Practices | 3 |
| 4. | nology program shall be contingent upon docu- | VET-237 | Animal Nutrition | 3 |
| | mentation of physical and emotional health that would provide evidence that is indicative of the | PSY-150 | General Psychology | 3 |
| 5. | applicant's ability to provide safe care to animals. Satisfactory completion of required immuniza- | Sixth Seme | ester (Summer) | |

Total Credit Hours Required

Work Based Learning I

WBL-112

background checks and/or drug screening prior to acceptance/placement to that site. Work Based Learning sites can refuse a student's acceptance/ placement to that site if the student does not meet any standards set by the policies and procedures of that site. Placement in a Work Based Learning site is not guaranteed.

Work Based Learning sites may require criminal

7. North Carolina Board for Veterinary Medicine may require criminal background checks on all applicants for initial credentialing.

Veterinary Medical Technology Associate in Applied Science Degree (A45780)

Courses requiring a grade of "C" or better: ACA, CHM, MAT, VET, WBL

| First Semes | ter (Fall) | Credits |
|-------------|--------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| ENG-111 | Writing and Inquiry | 3 |
| VET-120 | Vet. Anatomy & Physiology | 4 |
| VET-121 | Veterinary Medical Terminology | 3 |
| VET-137 | Veterinary Office Practices | 2 |
| | | |
| Second Ser | nester (Spring) | |
| CHM-130 | Gen, Org, & Biochemistry | 3 |
| CHM-130A | Gen, Org, & Biochem Lab | 1 |
| MAT-110 | Math Measurement & Literacy | 3 |
| VET-110 | Animal Breeds & Husbandry | 3 |
| VET-123 | Veterinary Parasitology | 3 |
| VET-125 | Veterinary Diseases I | 2 |

Arts and Sciences

Associate Transfer Degrees

Associate in Arts Associate in Fine Arts in Visual Arts Associate in General Education Associate in Science

A.A.S. Degrees

General Occupational Technology

Diplomas

General Occupational Technology

Certificates

General Occupational Technology

The North Carolina Comprehensive Articulation Agreement (CAA) is a statewide agreement governing the transfer of credits between NC community colleges and NC public universities. The CAA's objective is to facilitate the smooth transfer of students. The CAA does the following:

- Assures admission to one of the 16 UNC institutions.
- Enables NC community college graduates of twoyear Associate in Arts and Associate in Science degree programs who are admitted to constituent institutions of the UNC system to transfer with junior status.
- Provides a Transfer Credit Appeal Procedure.

The **Associate in Arts** (A10100) degree is designed for students who want to pursue a four-year degree in one of the liberal arts disciplines or training at a professional school that requires a strong liberal arts background.

The **Associate in Science** (A10400) degree is designed for students who want to pursue a four-year degree in areas of study such as computer science, engineering, mathematics, the sciences, or professional programs that require strong mathematics and science backgrounds.

As part of the Associate in Arts and Associate in Science degrees, students take courses in the Universal General Education Transfer Core (UGETC). These courses provide students with a knowledge base of historical, societal, and environmental contexts for succeeding in the changing global community. UGETC represents a full spectrum of English composition, humanities and fine arts, social and behavioral sciences, natural sciences, and mathematics courses. General education courses facilitate student acquisition and sharing of knowledge, encourage social interaction, and promote an educated citizenry. General education courses also develop broad, cross-curriculum knowledge and skill sets that prepare the student for the challenges of post-graduation endeavors.

The Uniform Articulation Agreement focuses on seamless transfer for students who begin visual arts studies at a community college and then transfer to one of the University of North Carolina Bachelor of Fine Arts/Visual Arts programs. The Associate in Fine Arts in Visual Arts to Bachelor of Fine Arts (AFAVA to BFA) agreement is made between the State Board of the North Carolina Community College System and The University of North Carolina Board of Governors. It applies to all North Carolina community colleges that offer the Associate in Fine Arts in Visual Arts (A10600) program and to those constituent institutions of The University of North Carolina that operate Bachelor of Fine Arts Programs.

For additional information about the Comprehensive Articulation Agreement or the Uniform Articulation Agreement, visit **www.cfnc.org**.

Asheville-Buncombe Technical Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACS COC). "General Education" is the term used by SACS to describe a breadth of skills and knowledge across various disciplines including: humanities/fine arts; social/behavioral sciences; and natural science/mathematics. Hence, "general education" is something more broadly understood than the core undergraduate courses.

The Honors Program

The Honors Program offers engaging and intellectually stimulating classes for highly motivated and academically talented students who want to get more out of their experiences at A-B Tech. The Honors class sections are academically rigorous and challenge students to maximize their intellectual abilities and potential in a variety of General Education courses. Completion of Honors classes demonstrates to universities and prospective employers the student's pursuit of academic excellence and intellectual growth. Students who successfully complete 12 hours or more of Honors classes while maintaining a cumulative GPA of 3.5 earn a notation on their transcript and the ability to transfer directly into Honors Colleges at select universities.

Please see your transfer advisor or the Honors Program Director for more information.

Transfer Pathways

A-B Tech has developed 31 transfer Pathways that are designed to maximize your velocity toward a bachelor's degree in a chosen field of study. The transfer Pathways are:

Associate in Arts:

Accelerated AA
Business & Accounting
Communication
Creative Arts
Criminal Justice
Education
English
Foreign Language
General

Health & Wellness History

Information Systems

Music Philosophy Political Science Pre-Health Psychology Social Work Sociology

Associate in Science:

Biology Chemistry

Computer Science -

General

Computer Science –
Computer Systems
Concentration
Computer Science –
Information Systems
Concentration
Environmental Science

General Mathematics Physics Pre-Dental Pre-Engineering Pre-Medical

Pre-Pharmacy Pre-Physical Therapy Pre-Physician's Assistant Pre-Veterinarian

Associate in Fine Arts

Associate in Fine Arts – Graphic Design Pathway Associate in Fine Arts – Studio Art Pathway

Anyone can begin a path toward a bachelor's degree by enrolling at A-B Tech. Don't see a pathway for your chosen discipline? You can still start with A-B Tech. An academic advisor will work to create a specific curriculum for you to transfer to a bachelor's degree-granting institution.

Associate in Arts (AA) Degree (A10100)

Your assigned academic advisor will develop a specific curriculum for your educational goals.

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina and to Signatory

Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

General Education (45 Hours)

English Composition - 6 hours

ENG-111 Writing and Inquiry
ENG-112 Writing/Research in the Disc

Humanities/Fine Arts (Courses must be from at least two different disciplines) - 9 hours

| COM-120 COM-231 | Intro to Interpersonal Com Public Speaking | OR |
|--------------------|---|----|
| ART-111 | Art Appreciation | |
| ART-114 | Art History Survey I | |
| ART-115 | Art History Survey II | |
| COM-231 | Public Speaking | |
| ENG-231 | American Literature I | |
| ENG-232 | American Literature II | |
| ENG-241 | British Literature I | |
| ENG-242 | British Literature II | |
| MUS-110 | Music Appreciation | |
| MUS-112 | Introduction to Jazz | |
| PHI-215 | Philosophical Issues | |
| PHI-240 | Introduction to Ethics | |

Social / Behavioral Sciences (Courses must be from at least two disciplines) - 9 hours

Pick one of the following:

| HIS-111 | World Civilizations I |
|---------|-----------------------|
| HIS-112 | World Civilizations I |
| HIS-131 | American History I |
| HIS-132 | American History II |

Pick two of the following:

| ECO-251 | Prin of Microeconomics |
|---------|---------------------------|
| ECO-252 | Prin of Macroeconomics |
| HIS-111 | World Civilizations I |
| HIS-112 | World Civilizations II |
| HIS-131 | American History I |
| HIS-132 | American History II |
| POL-120 | American Government |
| PSY-150 | General Psychology |
| SOC-210 | Introduction to Sociology |

Mathematics - 3-4 hours

| MAT-143 | Quantitative Literacy |
|---------|-----------------------|
| MAT-152 | Statistical Methods I |
| MAT-171 | Precalculus Algebra |

GEL-111

PHY-110

PHY-110A

abtech.edu

| Natural Scie | nces - 4 hours | PHI-215 | PHY-251 | PSY-241 | SOC-240 |
|--------------|---------------------------|----------|---------|---------|---------|
| AST-111 | Descriptive Astronomy | PHI-240 | PHY-252 | PSY-281 | SPA-111 |
| AST-111A | Descriptive Astronomy Lab | PHY-110 | POL-120 | SOC-210 | SPA-112 |
| BIO-110 | Principles of Biology | PHY-110A | POL-220 | SOC-213 | SPA-211 |
| BIO-111 | General Biology | PHY-151 | PSY-150 | SOC-220 | SPA-212 |
| CHM-151 | General Chemistry I | PHY-152 | PSY-237 | SOC-225 | |

Additional General Education Requirements - 13-14 hours

HUM- 220 Human Values and Meaning

Introductory Geology

Conceptual Physics

Conceptual Physics Lab

Additional General Education courses as designated in pathway. Courses listed in bold meet this requirement.

Other Required Hours - 15

| ACA-122 | College Transfer | Success | |
|--------------|-------------------|----------|---------|
| Additional h | ours from the lis | | s) |
| ACC-120 | BIO-169 | EDU-221 | MAT-252 |
| ACC-121 | BIO-175 | EGR-150 | MAT-263 |
| ANT-220 | BIO-271 | EGR-212 | MAT-271 |
| ART-111 | BIO-275 | EGR-215 | MAT-272 |
| ART-114 | BUS-110 | EGR-216 | MAT-273 |
| ART-115 | BUS-115 | EGR-220 | MAT-280 |
| ART-121 | BUS-137 | EGR-228- | MAT-285 |
| ART-122 | CHM-130 | ENG-114 | MUS-110 |
| ART-131 | CHM130A | ENG-125 | MUS-112 |
| ART-171 | CHM-132 | ENG-231 | MUS-121 |
| ART-214 | CHM-151 | ENG-232 | MUS-122 |
| ART-231 | CHM-152 | ENG-241 | MUS-125 |
| ART-240 | CHM-251 | ENG-242 | MUS-126 |
| ART-244 | CHM-252 | FRE-111 | MUS-131 |
| ART-261 | CHM-271 | FRE-112 | MUS-132 |
| ART-264 | CIS-110 | FRE-211 | MUS-231 |
| ART-266 | CIS-115 | FRE-212 | MUS-232 |
| ART-267 | CJC-111 | GEL-111 | PED-110 |
| ART-275 | CJC-121 | GIS-111 | PED-117 |
| ART-276 | CJC-141 | HEA-110 | PED-118 |
| ART-281 | COM-110 | HEA-112 | PED-119 |
| ART-283 | COM-120 | HIS-111 | PED-120 |
| ART-284 | COM-140 | HIS-112 | PED-122 |
| AST-111 | COM-150 | HIS-131 | PED-123 |
| AST-111A | COM-231 | HIS-132 | PED-125 |
| BIO-110 | CSC-134 | HIS-236 | PED-126 |
| BIO-111 | CSC-151 | HUM-110 | PED-128 |
| BIO-112 | CTS-115 | HUM-115 | PED-130 |
| BIO-120 | DFT-170 | HUM-120 | PED-143 |
| BIO-130 | ECO-151 | HUM-160 | PED-145 |
| BIO-140 | ECO-251 | HUM-220 | PED-171 |
| BIO-140A | ECO-252 | MAT-143 | PED-211 |
| BIO-155 | EDU-144 | MAT-152 | PED-217 |
| BIO-163 | EDU-145 | MAT-171 | PED-218 |
| BIO-168 | EDU-216 | MAT-172 | PED-235 |
| obtook odu | | | |

Total Semester Hours Credit (SHC) in Program: 60-61

One semester hour of credit may be included in a 61 SHC associate in arts program of study. The transfer of this hour is not guaranteed.

Associate in Arts (AA) Pathways

AA and AS degrees require completion of a minimum of 60 semester hours of credit, but pathways may include extra hours to meet university baccalaureate degree plans. Completion of hours beyond 60 may not be required to meet AA or AS graduation requirements but is recommended based on programs offered by intended transfer institutions.

The following pathways are for full-time students. Please see the Transfer Advising Center or an advisor for part-time pathways.

General AA Pathway

The General AA Pathway is available in traditional format or 100% online.

| First Semeste | er | Credits |
|---------------|------------------------------------|---------|
| ACA-122 | College Transfer Success | 1 |
| COM-231 | Public Speaking | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-152 | Statistical Methods I | 4 |
| PSY-150 | General Psychology | 3 |
| Second Seme | ester | |
| ART-111 | Art Appreciation | 3 |
| ENG-112 | Writing/Research in the Disc | 3 |
| FRE -111 | Elementary French I (or SPA 111) | 3 |
| HEA-110 | Personal Health/Wellness | 3 |
| SOC-210 | Introduction to Sociology | 3 |
| Third Semest | er | |
| BIO-111 | General Biology I | 4 |
| FRE -112 | Elementary French II (or SPA 112) | 3 |
| HIS-112 | World Civilization II | 3 |
| PHI-240 | Introduction to Ethics | 3 |
| | Guided Elective | 3 |
| Fourth Semes | ster | |
| ECO-251 | Prin of Microeconomics | 3 |
| FRE-211 | Intermediate French I (or SPA 211) | 3 |
| HUM-220 | Human Values and Meaning | 3 |
| PSY-281 | Abnormal Psychology | 3 |
| | Guided Elective | 3 |

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|---|--|-------------|-----------------------|----------------------------------|-------------|
| Accelerated AA Pathway | | Second Se | mester | | |
| The accelerated AA pathway is designed to be completed in | | BIO-110 | Principles of Biology | 4 | |
| 15-18 months. | | | BUS-115 | Business Law I | 3 |
| Summer In | tersession 1 | Credits | ECO-252 | Prin of Macroeconomics | 3 |
| ACA-122 | College Transfer Success | 1 | ENG-112 | Writing/Research in the Disc | 3 |
| ENG-111 | Writing and Inquiry | 3 | MUS-110 | Music Appreciation | 3 |
| EING-III | vviiting and inquiry | J | | | |
| Summer Se | emester 1 | | Third Seme | ester | |
| ART-111 | Art Appreciation | 3 | ACC-120 | Prin of Financial Accounting | 4 |
| COM-120 | Intro to Interpersonal Com | 3 | CIS-110 | Introduction to Computers | 3 |
| MUS-110 | Music Appreciation | 3 | MAT-171 | Precalculus Algebra | 4 |
| 10100-110 | Music Appreciation | 3 | PHI-240 | Introduction to Ethics | 3 |
| Fall Semes | iter 1 | | Fourth Sem | | |
| ENG-112 | Writing/Research in the Disc | 3 | | | |
| FRE-111 | Elementary French I (or SPA 111) | 3 | ACC-121 | Prin of Managerial Accounting | 4 |
| HEA-110 | Personal Health/Wellness | 3 | BUS-137 | Principles of Management | 3 |
| MAT-152 | Statistical Methods I | 4 | | (or FRE 111 or SPA 111) | _ |
| SOC-210 | Introduction to Sociology | 3 | HIS-132 | American History II | 3 |
| 000 2.0 | ma oddotion to coolology | · · | HUM-220 | Human Values and Meaning | 3 |
| Winter Inte | prsession | | MAT-263 | Brief Calculus | 4 |
| PSY-150 | General Psychology | 3 | Ducinoco | s/Accounting Pathway - UNC As | hovillo |
| F31-100 | deneral Esychology | J | | Carolina University, and Mars I | |
| Spring Sen | nester 1 | | Universit | | |
| BIO-110 | Principles of Biology | 4 | First Seme | | Credits |
| ECO-251 | Prin of Microeconomics | 3 | ACA-122 | College Transfer Success | 1 |
| FRE-112 | Elementary French II (or SPA 112) | 3 | COM-231 | Public Speaking | 3 |
| PHI-240 | Introduction to Ethics | 3 | ECO-251 | Prin of Microeconomics | 3 |
| PSY-281 | Abnormal Psychology | 3 | ENG-111 | Writing and Inquiry | 3 |
| 101-201 | Abhormari Sychology | J | MAT-152 | Statistical Methods I | 4 |
| Summer In | tersession 2 | | IVIAI-132 | Statistical Methods I | 7 |
| HIS-111 | World Civilization I | 3 | Second Se | mester | |
| 1110-111 | vvona divinization i | J | BIO-110 | Principles of Biology | 4 |
| 0 | | | BUS-115 | Business Law I | 3 |
| Summer Se | | | ECO-252 | Prin of Macroeconomics | 3 |
| HIS-112 | World Civilization II | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| HUM-220 | Human Values and Meaning | 3 | MUS-110 | Music Appreciation | 3 |
| ECO-252 | Prin of Macroeconomics | 3 | Third Seme | | 0 |
| Rusiness | s/Accounting Pathway - Appala | chian | ACC-120 | Prin of Financial Accounting | 4 |
| State Uni | | <u>omun</u> | BUS-110 | Introduction to Business | 3 |
| First Seme: | - | Credits | FRE-111 | Elementary French I (or SPA 111) | 3 |
| ACA-122 | | 1 | PHI-240 | Introduction to Ethics | 3 |
| COM-231 | College Transfer Success Public Speaking | 3 | PSY-150 | General Psychology | 3 |
| ECO-251 | Prin of Microeconomics | 3 | | | |
| ENG-111 | Writing and Inquiry | 3 | | | |
| MAT-152 | Statistical Methods I | 3 4 | | | |
| IVIAI-19Z | סנמנוסנונמו ועופנווטטט ו | 4 | | | |

| IZZ | | | | | | |
|-------------|---------------|-----------------------------------|---------|------------|-----------------------------------|---------|
| Fourth | seme | ester | | Second Se | mester | |
| ACC-1 | 21 | Prin of Managerial Accounting | 4 | ART-111 | Art Appreciation | 3 |
| FRE-11 | 2 | Elementary French II (or SPA 112) | 3 | ART-114 | Art History Survey I | 3 |
| HIS-11 | 2 | World Civilization II | 3 | ART-171 | Digital Design I | 3 |
| HUM-220 | | Human Values and Meaning | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| SOC-2 | 10 | Introduction to Sociology | 3 | MUS-110 | Music Appreciation | 3 |
| Com | muni | cation Pathway | | Third Semo | ester (Summer) | |
| First S | Semes | ter | Credits | BIO-110 | Principles of Biology | 4 |
| ACA | 122 | College Transfer Success | 1 | COM-231 | Public Speaking | 3 |
| COM | 231 | Public Speaking | 3 | | | |
| ENG | 111 | Writing and Inquiry | 3 | Fourth Sen | nactar | |
| MAT | 152 | Statistical Methods I | 4 | | | 0 |
| PSY | 150 | General Psychology | 3 | ART-115 | Art History Survey II | 3 |
| | 100 | donoral reveniency, | Ü | ART-264 | Digital Photography I | 3 |
| Cana | nd Sen | and the second | | ART-266 | Videography I | 3 |
| | | | | FRE-111 | Elementary French I (or SPA 111) | 3 |
| COM | 110 | Introduction to Communication | 3 | HIS-111 | World Civilizations I | 3 |
| ENG | 112 | Writing/Research in the Disc | 3 | | | |
| HEA | 110 | Personal Health/Wellness | 3 | Fifth Seme | ster | |
| PHI | 240 | Introduction to Ethics | 3 | ART-276 | Interactive Media Design | 3 |
| SOC | 210 | Introduction to Sociology | 3 | FRE-112 | Elementary French II (or SPA 112) | 3 |
| Third | Semes | ster (Summer) | | HIS-112 | World Civilizations II | 3 |
| COM | 120 | Intro to Interpersonal Com | 3 | HUM-220 | Human Values and Meaning | 3 |
| FRE | 111 | Elementary French I (or SPA 111) | 3 | | | _ |
| | | | | | Justice Pathway - Appalachian | |
| | seme | | | | ty and Western Carolina Univers | - |
| CIS | 110 | Introduction to Computers | 3 | First Seme | | Credits |
| COM | 150 | Intro to Mass Comm | 3 | ACA-122 | College Transfer Success | 1 |
| ENG | 232 | American Literature II | 3 | COM-231 | Public Speaking | 3 |
| FRE | 112 | Elementary French II (or SPA 112) | 3 | ENG-111 | Writing and Inquiry | 3 |
| | | | | MAT-152 | Statistical Methods I | 4 |
| Fifth S | Semes | ter | | PSY-150 | General Psychology | 3 |
| BIO | 110 | Principles of Biology | 4 | | | |
| COM | 140 | Intro Intercultural Com | 3 | Second Se | mester | |
| HIS | 112 | World Civilizations II | 3 | ART-111 | Art Appreciation | 3 |
| HUM | 220 | Human Values and Meaning | 3 | BIO-110 | Principles of Biology | 4 |
| | | | | CJC-111 | Intro to Criminal Justice | 3 |
| <u>Crea</u> | tive <i>F</i> | Arts Pathway to UNC Asheville | and_ | ENG-112 | Writing/Research in the Disc | 3 |
| Mars | Hill : | <u>University</u> | | SOC-210 | Introduction to Sociology | 3 |
| First S | Semes | ter | Credits | | | |
| ACA-1 | 22 | College Transfer Success | 1 | Third Semo | | |
| ART-12 | 21 | Two-Dimensional Design | 3 | CJC-121 | Law Enforcement Operations | 3 |
| ENG-1 | 11 | Writing and Inquiry | 3 | FRE-111 | Elementary French I (or SPA 111) | 3 |
| MAT-1 | 43 | Quantitative Literacy | 3 | HEA-110 | Personal Health/Wellness | 3 |
| PSY-15 | 50 | General Psychology | 3 | HIS-132 | American History II | 3 |
| | | · | | POL-220 | International Relations | 3 |
| | | | | | | |

| | | | | | 123 |
|---|---|------------------|--------------------------------|---|-------------|
| Fourth Sem | ester | | Second Se | mester | Credits |
| CJC-141 | Corrections | 3 | BIO-111 | General Biology I | 4 |
| FRE-112 | Elementary French II (or SPA 112) | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| HUM-220 | Human Values and Meaning | 3 | FRE- 112 | Elementary French II (or SPA 112) | 3 |
| PHI-240 | Introduction to Ethics | 3 | HEA-110 | Personal Health/Wellness | 3 |
| POL-120 | American Government | 3 | HUM-115 | Critical Thinking | 3 |
| Criminal | Justice Pathway - Mars Hill Un | <u>iversity</u> | Third Seme | ester (Summer) | |
| First Semes | ster | Credits | PSY-150 | General Psychology | 3 |
| ACA -122 | College Transfer Success | 1 | SOC-210 | Introduction to Sociology | 3 |
| COM-231 | Public Speaking | 3 | 000 2.0 | in addition to booleragy | · · |
| ENG-111 | Writing and Inquiry | 3 | Fourth Sem | nector | |
| MAT-143 | Quantitative Literacy | 3 | | | |
| PSY-150 | General Psychology | 3 | ART-111 | Art Appreciation | 3 |
| 101 100 | PED Elective | 1 | ENG-125 | Creative Writing I | 3 |
| | I LD LIECTIVE | ı | ENG-231 | American Literature I | 3 |
| | | | ENG-241 | British Literature I | 3 |
| Second Se | mester | | HIS-111 | World Civilizations I | 3 |
| ART-111 | Art Appreciation | 3 | | | |
| BIO-110 | Principles of Biology | 4 | Fifth Seme | ster | |
| CJC-111 | Intro to Criminal Justice | 3 | ENG-232 | American Literature II | 3 |
| ENG-112 | Writing/Research in the Disc | 3 | ENG-242 | British Literature II | 3 |
| SOC-210 | Introduction to Sociology | 3 | HIS-112 | World Civilizations II | 3 |
| | | | HUM-220 | Human Values and Meaning | 3 |
| Third Seme | ester | | | | |
| CJC-121 | Law Enforcement Operations | 3 | Foreign L | anguage Pathway | |
| FRE-111 | Elementary French I (or SPA 111) | 3 | First Seme | | Credits |
| HEA-110 | Personal Health/Wellness | 3 | ACA-122 | College Transfer Success | 1 |
| HIS-132 | American History II | 3 | | • | |
| POL-220 | International Relations | 3 | COM-231 | Public Speaking | 3 |
| | | | ENG-111 | Writing and Inquiry | 3 |
| Fourth Sem | actor | | FRE-111 | Elementary French I (or SPA 111) | 3 |
| | | 0 | MAT-143 | Quantitative Literacy | 3 |
| CJC-141 | Corrections | 3 | | | |
| FRE-112 | Elementary French II (or SPA 112) | 3 | Second Se | mester | |
| HUM-220 | Human Values and Meaning | 3 | BIO-110 | Principles of Biology | 4 |
| PHI-240 | Introduction to Ethics | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| POL-120 | American Government | 3 | FRE-112 | Elementary French II (or SPA 112) | 3 |
| | | | HIS-111 | World Civilizations I | 3 |
| Enalish P | <u>Pathway</u> | | HUM-115 | Critical Thinking | 3 |
| <u>=g</u> | | 0 111 | | | |
| First Seme: | ster | Credits | | | |
| _ | ster College Transfer Success | Credits 1 | Third Seme | ester | |
| First Semes | | | Third Seme | ester Environmental Biology | 3 |
| First Semes | College Transfer Success Public Speaking Writing and Inquiry | 1 | | | 3 1 |
| First Semes ACA-122 COM-231 | College Transfer Success Public Speaking | 1 3 | BIO-140 | Environmental Biology | 3 1 3 |
| First Semes ACA-122 COM-231 ENG-111 | College Transfer Success Public Speaking Writing and Inquiry | 1 3 3 | BIO-140 BIO-140A | Environmental Biology Environmental Biology Lab | 1 |
| First Semes ACA-122 COM-231 ENG-111 FRE-111 | College Transfer Success Public Speaking Writing and Inquiry Elementary French I (or SPA 111) | 1 3 3 3 | BIO-140 BIO-140A ENG-231 | Environmental Biology Environmental Biology Lab American Literature I | 1 |

| 124 | | | | | | | |
|--------------------|--------|--|------------|------------|--------|-------------------------------|------------|
| Fourth | Seme | ester | | Seco | nd Sen | nester | |
| FRE-212 | 2 | Intermediate French II (or SPA 212) | 3 | CIS | 110 | Introduction to Computers | 3 |
| HEA-11 | 0 | Personal Health/Wellness | 3 | COM | 231 | Public Speaking | 3 |
| HIS-112 | 2 | World Civilizations II | 3 | ECO | 252 | Prin of Macroeconomics | 3 |
| HUM-22 | 20 | Human Values and Meaning | 3 | ENG | 112 | Writing/Research in the Disc | 3 |
| SOC-22 | :5 | Social Diversity | 3 | MAT | 263 | Brief Calculus | 4 |
| <u>Histo</u> | ry Pa | ıthway | | Fourtl | n Seme | ester | |
| First Se | emest | ter | Credits | ACC | 120 | Prin of Financial Accounting | 4 |
| ACA-12 | 22 | College Transfer Success | 1 | ART | 111 | Art Appreciation | 3 |
| ENG-11 | 1 | Writing and Inquiry | 3 | BIO | 110 | Principles of Biology | 4 |
| HIS-111 | l | World Civilizations I | 3 | MAT | 152 | Statistical Methods I | |
| MAT-15 | 52 | Statistical Methods I | 4 | IVIAI | 152 | Statistical Methods I | 4 |
| MUS-11 | 10 | Music Appreciation | 3 | Fifth 9 | Semes | tor | |
| | | | | ACC | 121 | Prin of Managerial Accounting | 4 |
| Second | d Sen | nester | | BUS | 110 | Introduction to Business | 3 |
| ART-114 | 4 | Art History Survey I | 3 | | 115 | Business Law I | |
| BIO-110 |) | Principles of Biology | 4 | BUS HUM | | | 3 |
| ANT-22 | 0 | Cultural Anthropology | 3 | | 220 | Human Values and Meaning | 3 |
| ENG-11 | | Writing/Research in the Disc | 3 | PHI | 240 | Introduction to Ethics | 3 |
| HIS-112 | 2 | World Civilizations II | 3 | Infor | matic | on Systems Pathway - Wester | n Carolina |
| Third S | | | | | ersity | • | ii ouronnu |
| | | | | First S | Semes | ter | Credits |
| ACC-12 | :0 | Prin of Financial Accounting | 4 | ACA | 122 | College Transfer Success | 1 |
| FDF 111 | 1 | (or BIO 140/BIO 140A) | 0 | ECO | 251 | Prin of Microeconomics | 3 |
| FRE-111 HIS-131 | | Elementary French I (or SPA 111) | 3 3 | ENG | 111 | Writing and Inquiry | 3 |
| HIS-236 | | American History I North Carolina History | 3 | HIS | 111 | World Civilizations I | 3 |
| POL-120 | | American Government | 3 | MAT | 152 | Statistical Methods I | 4 |
| 1 OL-120 | U | American dovernment | 3 | | | | |
| Fourth | Seme | ester | | Seco | nd Sen | nester | |
| ECO-25 | 1 | Prin of Microeconomics | 3 | BUS | 110 | Introduction to Business | 3 |
| FRE-112 | 2 | Elementary French II (or SPA 112) | 3 | COM | 231 | Public Speaking | 3 |
| HIS-132 | 2 | American History II | 3 | EC0 | 252 | Prin of Macroeconomics | 3 |
| HUM-22 | 20 | Human Values and Meaning | 3 | ENG | 112 | Writing/Research in the Disc | 3 |
| SOC-21 | 0 | Introduction to Sociology | 3 | PHI | 240 | Introduction to Ethics | 3 |
| <u>Inforn</u> | natio | on Systems Pathway - Appalac | hian State | Third | Semes | ster | |
| <u>Unive</u> | ersity | ! | | ACC | 120 | Prin of Financial Accounting | 4 |
| First Se | emest | ter | Credits | BIO | 110 | Principles of Biology | 4 |
| ACA | 122 | College Transfer Success | 1 | BUS | 115 | Business Law | 3 |
| ECO | 251 | Prin of Microeconomics | 3 | GEL | 111 | Introductory Geology | 4 |
| ENG | 111 | Writing and Inquiry | 3 | PSY | 150 | General Psychology | 3 |
| HIS | 111 | World Civilizations I | 3 | - | | , 3, | - |
| MAT | 171 | Precalculus Algebra | 4 | | | | |
| | | = | | | | | |

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|--|--|--|--|---|---|
| Fourth Semo | ester | | Second Se | mester | |
| ACC 121 | Prin of Managerial Accounting | 4 | ART-111 | Art Appreciation | 3 |
| ART 111 | Art Appreciation | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| HUM 115 | Critical Thinking | 3 | HIS-111 | World Civilizations I | 3 |
| HUM 220 | Human Values and Meaning | 3 | MUS-110 | Music Appreciation | 3 |
| | | | MUS-132 | Chorus II | 1 |
| Health & | Wellness Pathway | | Third Seme | ester (Summer) | |
| First Semes | ter | Credits | BIO-110 | Principles of Biology | 4 |
| ACA-122 | College Transfer Success | 1 | COM-231 | Public Speaking | 3 |
| COM-231 | Public Speaking | 3 | | | |
| ENG-111 | Writing and Inquiry | 3 | Fourth Sem | ester | |
| MAT-152 | Statistical Methods I | 4 | FRE-111 | Elementary French I (or SPA 111) | 3 |
| PSY-150 | General Psychology | 3 | HIS-112 | World Civilizations II | 3 |
| | , 3, | | HUM-115 | Critical Thinking | 3 |
| Second Sen | nester | | MUS-231 | Chorus III | 1 |
| BIO-110 | Principles of Biology | 4 | PED-110 | Fit and Well for Lift | 2 |
| BIO-110 | Anatomy and Physiology I | 4 | | | |
| ENG-112 | Writing/Research in the Disc | 3 | Fifth Seme | ster | |
| SOC-210 | Introduction to Sociology | 3 | HUM-220 | Human Values and Meaning | 3 |
| 306-210 | introduction to Sociology | S | MUS-112 | Introduction to Jazz | 3 |
| Third Samo | ster (Summer) | | MUS-122 | Music Theory II | 3 |
| | | 0 | MUS-126 | Aural Skills II | 1 |
| PHI-240 | Introduction to Ethics | 3 | MUS-232 | Chorus IV | 1 |
| PSY-241 | Developmental Psych | 3 | | | |
| Fourth Semo | ester | | • | <u>hy Pathway</u> | |
| BIO-169 | Anatomy and Physiology II | 4 | First Seme | | Credits |
| טוט-וטט | Anatomy and mysiology ii | 4 | ACA-122 | College Transfer Success | 1 |
| EDE 111 | Elementary French I (or SDA 111) | 2 | | | |
| FRE-111 | Elementary French I (or SPA 111) | 3 | COM-231 | Public Speaking | 3 |
| HEA-110 | Personal Health/Wellness | 3 | ENG-111 | Writing and Inquiry | 3 |
| HEA-110 | , | | ENG-111 FRE-111 | Writing and Inquiry Elementary French I (or SPA 111) | 3 |
| HEA-110 HUM-115 | Personal Health/Wellness Critical Thinking | 3 | ENG-111 | Writing and Inquiry | 3 |
| HEA-110 HUM-115 Fifth Semes | Personal Health/Wellness Critical Thinking ter | 3 | ENG-111 FRE-111 MAT-143 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy | 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 | Personal Health/Wellness Critical Thinking ter Nutrition | 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester | 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) | 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology | 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II | 3 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc | 3 3 3 4 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning | 3 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) | 3 3 3 4 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II | 3 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I | 3 3 3 4 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation | 3 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) | 3 3 3 4 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation | 3 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I | 3 3 3 4 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation | 3 3 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I Introduction to Ethics | 3 3 3 4 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 Music Par First Semes | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation thway ter | 3 3 3 3 3 3 Credits | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 PHI-240 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I Introduction to Ethics | 3 3 3 4 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 Music Pa First Semes ACA-122 ENG-111 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation thway ter College Transfer Success | 3 3 3 3 3 Credits | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 PHI-240 Third Seme | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I Introduction to Ethics | 3 3 3 4 3 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 Music Pa First Semes ACA-122 ENG-111 MAT-143 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation thway ter College Transfer Success Writing and Inquiry | 3 3 3 3 3 3 Credits 1 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 PHI-240 Third Seme | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I Introduction to Ethics | 3 3 3 4 3 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 Music Pa First Semes | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation thway ter College Transfer Success Writing and Inquiry Quantitative Literacy | 3 3 3 3 3 Credits 1 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 PHI-240 Third Seme BIO-140 BIO-140A | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I Introduction to Ethics | 3 3 3 4 3 3 3 3 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 Music Pa First Semes ACA-122 ENG-111 MAT-143 MUS-121 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation thway ter College Transfer Success Writing and Inquiry Quantitative Literacy Music Theory I | 3 3 3 3 3 3 Credits 1 3 3 3 3 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 PHI-240 Third Seme BIO-140 BIO-140A FRE-211 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I Introduction to Ethics ester Environmental Biology Environmental Biology Lab Intermediate French I (or SPA 211) | 3 3 3 4 3 3 3 3 1 |
| HEA-110 HUM-115 Fifth Semes BIO-155 FRE -112 HIS-112 HUM-220 MUS-110 Music Pa First Semes ACA-122 ENG-111 MAT-143 MUS-121 MUS-125 | Personal Health/Wellness Critical Thinking ter Nutrition Elementary French II (or SPA 112) World Civilizations II Human Values and Meaning Music Appreciation thway ter College Transfer Success Writing and Inquiry Quantitative Literacy Music Theory I Aural Skills I | 3 3 3 3 3 Credits 1 3 3 3 1 | ENG-111 FRE-111 MAT-143 Second Se BIO-11 0 ENG-112 FRE-112 HIS-111 PHI-240 Third Seme BIO-140 BIO-140A FRE-211 HIS-112 | Writing and Inquiry Elementary French I (or SPA 111) Quantitative Literacy mester Principles of Biology Writing/Research in the Disc Elementary French II (or SPA 112) World Civilizations I Introduction to Ethics ester Environmental Biology Environmental Biology Lab Intermediate French I (or SPA 211) World Civilizations II | 3 3 3 4 3 3 3 3 1 3 3 |

| ester | | Second Se | mester | |
|---|---|---|--|--|
| Cultural Anthropology | 3 | BIO-168 | Anatomy and Physiology I | 4 |
| Personal Health/Wellness | 3 | CHM-151 | General Chemistry I | 4 |
| Human Values and Meaning | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| Philosophical Issues | 3 | SOC-210 | Introduction to Sociology | 3 |
| Science Pathway | | Third Seme | ester (Summer) | |
| ster | Credits | PHI-240 | Introduction to Ethics | 3 |
| College Transfer Success | 1 | PSY-241 | Developmental Psych | 3 |
| Writing and Inquiry | 3 | Fourth Sem | nester | |
| World Civilizations I | 3 | BIO-155 | Nutrition | 3 |
| Statistical Methods I | 4 | | | 4 |
| Music Appreciation | 3 | | | 4 |
| | | | , | 3 |
| mester | | | ontious mining | ŭ |
| Art Appreciation | 3 | F:(1.0 | | |
| • • | 4 | | | |
| = 1 | 3 | | = 1 | 4 |
| World Civilizations II | | | | 3 |
| American Government | | | • | 3 |
| | | MUS-110 | Music Appreciation | 3 |
| ester | | | | |
| = - | 3 | <u>Pre-Heal</u> | <u>th Pathway (Western Carolina</u> | <u>a University)</u> |
| • | 1 | First Seme | ster | Credits |
| | 3 | ACA-122 | College Transfer Success | 1 |
| | | COM-231 | | 3 |
| , | | ENG-111 | | 3 |
| International Relations | 3 | | Statistical Methods I | 4 |
| | | PSY-150 | General Psychology | 3 |
| | 3 | | | |
| | | Second Se | mester | |
| | | BIO-168 | Anatomy and Physiology I | 4 |
| | | CHM-151 | General Chemistry I | 4 |
| | | ENG-112 | Writing/Research in the Disc | 3 |
| ridinan variate and mouning | Ü | SOC-210 | Introduction to Sociology | 3 |
| | - | Third Seme | ester (Summer) | |
| | | PHI-240 | Introduction to Ethics | 3 |
| | Credits | PSY-241 | | 3 |
| • | 1 | | . , | |
| | 3 | Fourth Sen | nester | |
| Writing and Inquiry | 3 | | | 4 |
| Statistical Methods I | 4 | | | 4 |
| General Psychology | 3 | | , | 4 |
| | | | | 3 |
| | | HUM-115 | Critical Thinking | 3 |
| | Cultural Anthropology Personal Health/Wellness Human Values and Meaning Philosophical Issues Science Pathway ster College Transfer Success Writing and Inquiry World Civilizations I Statistical Methods I Music Appreciation mester Art Appreciation Principles of Biology Writing/Research in the Disc World Civilizations II American Government ester Environmental Biology Environmental Biology Environmental Biology Environmental Biology International Relations mester Prin of Microeconomics Elementary French I (or SPA 111) American History I International Relations mester Prin of Macroeconomics American Literature II Elementary French II (or SPA 112) American History II Human Values and Meaning th Pathway (Appalachian State And Mars Hill University) ster College Transfer Success Public Speaking Writing and Inquiry Statistical Methods I | Cultural Anthropology Personal Health/Wellness 3 Human Values and Meaning Philosophical Issues 3 Science Pathway ster Credits College Transfer Success 1 Writing and Inquiry 3 World Civilizations I Statistical Methods I Music Appreciation 3 Principles of Biology Writing/Research in the Disc World Civilizations II American Government 3 Steter Environmental Biology Environmental Biology Environmental Biology Lab Prin of Microeconomics Selementary French I (or SPA 111) American History I International Relations 3 Selementary French II (or SPA 112) American History II Human Values and Meaning 3 th Pathway (Appalachian State Ly and Mars Hill University) ster College Transfer Success 1 Public Speaking Writing and Inquiry Statistical Methods I 4 | Cultural Anthropology Personal Health/Wellness Human Values and Meaning Philosophical Issues Science Pathway Ster Credits College Transfer Success Writing and Inquiry World Civilizations I Statistical Methods I Music Appreciation Principles of Biology Writing/Research in the Disc World Civilizations II American Government Environmental Biology Envi | Cultural Anthropology Personal Hoalth/Wellness Anatomy and Physiology I Personal Hoalth/Wellness A CHM-151 General Chemistry I Human Values and Meaning Philosophical Issues Science Pathway Third Semester (Summer) Science Pathway Third Semester (Summer) Ster Credits PHI-240 Introduction to Ethics Developmental Psych Writing and Inquiry A BIO-155 Nutrition Statistical Methods I Music Appreciation Art Appreciation American Government Art Appreciation Art Appre |

| | | | | | 12/ |
|-----------------------------------|---|----------------|--------------------|--|----------|
| Fifth Seme | ster | | Second Se | mester | |
| BIO-275 | Microbiology | 4 | ART-114 | Art History Survey I | 3 |
| HIS-132 | American History II | 3 | BIO-110 | Principles of Biology | 4 |
| HUM-220 | Human Values and Meaning | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| MUS-110 | Music Appreciation | 3 | FRE-111 | Elementary French I (or SPA 111) | 3 |
| | | | SOC-210 | Introduction to Sociology | 3 |
| Psycholo | <u>gy Pathway</u> | | | | |
| First Semes | ster | Credits | Third Seme | ester | |
| ACA-122 | College Transfer Success | 1 | ANT-220 | Cultural Anthropology | 3 |
| COM-231 | Public Speaking | 3 | BIO-140 | Environmental Biology | 3 |
| ENG-111 | Writing and Inquiry | 3 | BIO-140A | Environmental Biology Lab | 1 |
| MAT-152 | Statistical Methods I | 4 | FRE-112 | Elementary French II (or SPA 112) | 3 |
| PSY-150 | General Psychology | 3 | POL-120 | American Government | 3 |
| | | | PSY-241 | Developmental Psych | 3 |
| Second Se | mester | | | | |
| BIO-110 | Principles of Biology | 4 | Fourth Sem | nester | |
| ENG-112 | Writing/Research in the Disc | 3 | FRE-211 | Intermediate French I (or SPA 211) | 3 |
| FRE-111 | Elementary French I (or SPA 111) | 3 | HIS-132 | American History II | 3 |
| HIS-111 | World Civilizations I | 3 | HUM-220 | Human Values and Meaning | 3 |
| PSY-237 | Social Psychology | 3 | PHI-215 | Philosophical Issues | 3 |
| | | | PSY-281 | Abnormal Psychology | 3 |
| Third Seme | ester | | | | |
| FRE-112 | Elementary French II (or SPA 112) | 3 | | <u> Vork Pathway - Western Carolin</u> | <u>a</u> |
| MUS-110 | Music Appreciation | 3 | <u>Universit</u> | ty and Mars Hill University | |
| PHI-240 | Introduction to Ethics | 3 | First Seme | ster | Credits |
| PSY-241 | Developmental Psych | 3 | ACA-122 | College Transfer Success | 1 |
| SOC-210 | Introduction to Sociology | 3 | COM-231 | Public Speaking | 3 |
| | | | ENG-111 | Writing and Inquiry | 3 |
| Fourth Sem | ester | | MAT-152 | Statistical Methods I | 4 |
| ART-111 | Art Appreciation | 3 | PSY-150 | General Psychology | 3 |
| BIO-140 | Environmental Biology | 3 | | | |
| BIO-140A | Environmental Biology Lab | 1 | Second Se | mester | |
| FRE-211 | Intermediate French I (or SPA 211) | 3 | ART-114 | Art History Survey I | 3 |
| HUM-220 | Human Values and Meaning | 3 | BIO-110 | Principles of Biology | 4 |
| PSY-281 | Abnormal Psychology | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| | , | | FRE-111 | Elementary French I (or SPA 111) | 3 |
| Social W | <mark>ork Pathway - Appalachian Stat</mark> | <u>e</u> | SOC-210 | Introduction to Sociology | 3 |
| Universit | | | | | |
| OHINGISH | TĀ. | | | | |
| First Semes | | Credits | Third Seme | ester | |
| | | Credits | Third Seme | ester Basic Anat & Physiology | 5 |
| First Semes | ster | | | | 5 3 |
| First Semes | ster College Transfer Success | 1 | BIO-163 | Basic Anat & Physiology | |
| First Semes ACA-122 COM-231 | ster College Transfer Success Public Speaking | 1 3 | BIO-163 FRE-112 | Basic Anat & Physiology Elementary French II (or SPA 112) | 3 |

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|----------------|------------------------------------|------------|-----------------|------------------------------------|---|--|
| Fourth Sen | Fourth Semester | | | Second Semester | | |
| FRE-211 | Intermediate French I (or SPA 211) | 3 | BIO-110 | Principles of Biology | 4 | |
| HIS-132 | American History II | 3 | COM-231 | Public Speaking | 3 | |
| HUM-220 | Human Values and Meaning | 3 | ENG-112 | Writing/Research in the Disc | 3 | |
| PHI-215 | Philosophical Issues | 3 | FRE-111 | Elementary French I (or SPA 111) | 3 | |
| PSY-281 | Abnormal Psychology | 3 | HIS-112 Wo | rld Civilizations II | 3 | |
| _ | ıy Pathway - Appalachian State | University | Third Semo | ester | | |
| and UNC | <u> Asheville</u> | | ART-111 | Art Appreciation | 3 | |
| First Semester | | Credits | FRE-112 | Elementary French II (or SPA 112) | 3 | |
| ACA-122 | College Transfer Success | 1 | MUS-110 | Music Appreciation | 3 | |
| ENG-111 | Writing and Inquiry | 3 | SOC-220 | Social Problems | 3 | |
| MAT-152 | Statistical Methods I | 4 | SOC-240 | Social Psychology | 3 | |
| PSY-150 | General Psychology | 3 | | | | |
| SOC-210 | Introduction to Sociology | 3 | Fourth Semester | | | |
| | | | BIO-140 | Environmental Biology | 3 | |
| Second Se | emester | | BIO-140A | Environmental Biology Lab | 1 | |
| BIO-110 | Principles of Biology | 4 | FRE-211 | Intermediate French I (or SPA 211) | 3 | |
| ENG-112 | Writing/Research in the Disc | 3 | HEA-110 | Personal Health/Wellness | 3 | |
| FRE-111 | Elementary French I (or SPA 111) | 3 | HUM-220 | Human Values and Meaning | 3 | |
| HIS-112 | World Civilizations II | 3 | SOC-225 | Social Diversity | 3 | |
| SOC-240 | Social Psychology | 3 | | | | |
| | | | Associ | ate in Science (AS) Degree | е | |

3

Third Semester

| ART-111 | Art Appreciation | 3 |
|--------------------|--|---|
| COM-231 | Public Speaking | 3 |
| FRE-112 | Elementary French II (or SPA 112) | 3 |
| MUS-110 | Music Appreciation | 3 |
| SOC-220 | Social Problems | 3 |
| Fourth Seme | ester | |
| | | |
| ANT-220 | Cultural Anthropology | 3 |
| | | 3 |
| ANT-220 | Cultural Anthropology | - |
| ANT-220 BIO-140 | Cultural Anthropology Environmental Biology | 3 |

Sociology Pathway - Western Carolina University

Social Diversity

| First Semes | Credits | |
|-------------|---------------------------|---|
| ACA-122 | College Transfer Success | 1 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-152 | Statistical Methods I | 4 |
| PSY-150 | General Psychology | 3 |
| SOC-210 | Introduction to Sociology | 3 |

ASSOCIATE IN SCIENCE (AS) Degree (A10400)

The Associate in Science degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic computer use.

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

SOC-225

General Education (45 Hours)

English Composition - 6 hours

ENG-111 Writing and Inquiry

ENG-112 Writing/Research in the Disc

Humanities/Fine Arts (Courses must be from two different disciplines) - 6 hours

| COM-120 | Intro to Interpersonal Com | OR |
|---------|----------------------------|----|
| COM-231 | Public Speaking | |
| ART-111 | Art Appreciation | |
| ART-114 | Art History Survey I | |
| ART-115 | Art History Survey II | |
| COM-231 | Public Speaking | |
| ENG-231 | American Literature I | |
| ENG-232 | American Literature II | |
| ENG-241 | British Literature I | |
| ENG-242 | British Literature II | |
| MUS-110 | Music Appreciation | |
| MUS-112 | Introduction to Jazz | |
| PHI-215 | Philosophical Issues | |
| PHI-240 | Introduction to Ethics | |

Social / Behavioral Sciences (Courses must be from at least two disciplines) - 6 hours

Pick one of the following:

| HIS-111 | World Civilizations I |
|---------|------------------------|
| HIS-112 | World Civilizations II |
| HIS-131 | American History I |
| HIS-132 | American History II |
| | |

Pick one of the following:

| ECO-251 | Prin of Microeconomics |
|---------|---------------------------|
| ECO-252 | Prin of Macroeconomics |
| POL-120 | American Government |
| PSY-150 | General Psychology |
| SOC-210 | Introduction to Sociology |

Mathematics - 8 hours

| MAT-171 | Precalculus Algebra |
|---------|--------------------------|
| MAT-172 | Precalculus Trigonometry |
| MAT-263 | Brief Calculus |
| MAT-271 | Calculus I |
| MAT-272 | Calculus II |

Natural Sciences - 8 hours

Lab

| BIO-110 | Principles of Biology |
|---------|--|
| BIO-111 | General Biology I and BIO 112 General Biology II |
| CHM-151 | General Chemistry I and CHM 152 General Chemistry II |
| GEL-111 | Geology |
| PHY-110 | Conceptual Physics and PHY 110A Conceptual Physics |
| | |

PHY-151 College Physics I and PHY 152 College Physics II
PHY-251 General Physics I and PHY 252 General Physics II

Additional General Education Requirements- 11 hours

HUM 220 Human Values and Meaning

Additional General Education courses as designated in pathway. Courses listed in bold meet this requirement.

Other Required Hours -15 hours

ACA-122 College Transfer Success

Additional hours from the list below (14 hours)

AA and AS degrees require completion of a minimum of
60 semester hours of credit, but pathways may include
extra hours to meet university baccalaureate degree plans.
Completion of hours beyond 60 may not be required to meet
AA or AS graduation requirements but is recommended based
on programs offered by intended transfer institutions.
The following pathways are for full-time students. Please
see the Transfer Advising Center or an advisor for part-time
pathways.

| p | | | |
|----------|----------|---------|---------|
| ACC-120 | BIO-130 | COM-150 | GEL-111 |
| ACC-121 | BIO-140 | COM-231 | GIS-111 |
| ANT-220 | BIO-140A | CSC-134 | HEA-110 |
| ART-111 | BIO-155 | CSC-151 | HEA-112 |
| ART-114 | BIO-163 | CTS-115 | HIS-111 |
| ART-115 | BIO-168 | DFT-170 | HIS-112 |
| ART-121 | BIO-169 | ECO-151 | HIS-131 |
| ART-122 | BIO-175 | ECO-251 | HIS-132 |
| ART-131 | BIO-271 | ECO-252 | HIS-236 |
| ART-171 | BIO-275 | EDU-144 | HUM-110 |
| ART-214 | BUS-110 | EDU-145 | HUM-115 |
| ART-231 | BUS-115 | EDU-216 | HUM-120 |
| ART-240 | BUS-137 | EDU-221 | HUM-160 |
| ART-244 | CHM-130 | EGR-150 | HUM-220 |
| ART-261 | CHM130A | EGR-212 | MAT-143 |
| ART-264 | CHM-132 | EGR-215 | MAT-152 |
| ART-266 | CHM-151 | EGR-216 | MAT-171 |
| ART-267 | CHM-152 | EGR-220 | MAT-172 |
| ART-275 | CHM-251 | EGR-228 | MAT-252 |
| ART-276 | CHM-252 | ENG-114 | MAT-263 |
| ART-281 | CHM-271 | ENG-125 | MAT-271 |
| ART-283 | CIS-110 | ENG-231 | MAT-272 |
| ART-284 | CIS-115 | ENG-232 | MAT-273 |
| AST-111 | CJC-111 | ENG-241 | MAT-280 |
| AST-111A | CJC-121 | ENG-242 | MAT-285 |
| BIO-110 | CJC-141 | FRE-111 | MUS-110 |
| BIO-111 | COM-110 | FRE-112 | MUS-112 |
| BIO-112 | COM-120 | FRE-211 | MUS-121 |
| BIO-120 | COM-140 | FRE-212 | MUS-122 |
| | | | |

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|------------------|--------------------|----------------------|----------|------------|---------------------------------|-----------------|
| MUS-125 | PED-123 | PHI-215 | PSY-241 | | versity and M | |
| MUS-126 | PED-125 | PHI-240 | PSY-281 | Hill Unive | <u>ersity</u> | |
| MUS-131 | PED-126 | PHY-110 | SOC-210 | First Seme | ster | Credits |
| MUS-132 | PED-128 | PHY-110A | SOC-213 | ACA-122 | College Transfer Success | 1 |
| MUS-231 | PED-130 | PHY-151 | SOC-220 | BIO-111 | General Biology I | 4 |
| MUS-232 | PED-143 | PHY-152 | SOC-225 | COM-231 | Public Speaking | 3 |
| PED-110 | PED-145 | PHY-251 | SOC-240 | ENG-111 | Writing and Inquiry | 3 |
| PED-117 | PED-171 | PHY-252 | SPA-111 | MAT-171 | Precalculus Algebra | 4 |
| PED-118 | PED-211 | POL-120 | SPA-112 | | • | |
| PED-119 | PED-217 | POL-220 | SPA-211 | Second Se | mester | |
| PED-120 | PED-218 | PSY-150 | SPA-212 | | | 4 |
| PED-122 | PED-235 | PSY-237 | | BIO-112 | General Biology II | 4 |
| | | | | ENG-112 | Writing/Research in the Disc | 3 |
| <u>General P</u> | <u>athway</u> | | | HIS-111 | World Civilizations I | 3 |
| First Seme: | ster | | Credits | MAT-172 | Precalculus Trigonometry | 4 |
| ACA-122 | College Transfer | r Success | 1 | | | |
| BIO-111 | General Biology | 1 | 4 | Third Semo | ester (Summer) | |
| | (or CHM 151 or | PHY 151) | | CHM-151 | General Chemistry I | 4 |
| COM-231 | Public Speaking | | 3 | | | |
| ENG-111 | Writing and Inqu | | 3 | Fourth Sen | nester | |
| MAT-171 | - | ebra (or MAT 271) | 4 | ART-111 | Art Appreciation | 3 |
| | | | | CHM-152 | General Chemistry II | 4 |
| Second Se | mester | | | MAT-271 | Calculus I | 4 |
| BIO-112 | General Biology | 11 | 4 | PHY-151 | College Physics I | 4 |
| | (or CHM 152 or | | | 1111 101 | Schogo i nyoloo i | |
| ENG-112 | Writing/Researd | ch in the Disc | 3 | Fifth Seme | oto v | |
| HIS-112 | World Civilization | | 3 | | | |
| MAT-172 | Precalculus Trig | onometry | 4 | BIO-275 | Microbiology | 4 |
| | (or MAT 272) | , | | HUM-220 | Human Values and Meaning | 3 |
| PHI-240 | Introduction to E | Ethics | 3 | PHY-152 | College Physics II | 4 |
| | | | | PSY-150 | General Psychology | 3 |
| Third Seme | ester | | | | | |
| ECO-251 | Prin of Microeco | onomics | 3 | Biology P | athway - UNC Asheville | |
| SPA-111 | Elementary Spa | nish I (or FRE 111) | 3 | First Seme | ster | Credits |
| | Guided Elective: | : math or science | 4 | ACA-122 | College Transfer Success | 1 |
| | Guided Elective: | : math or science | 4 | BIO-111 | General Biology I | 4 |
| | | | | COM-231 | Public Speaking | 3 |
| Fourth Sem | ester | | | ENG-111 | Writing and Inquiry | 3 |
| HUM-220 | Human Values a | and Meaning | 3 | MAT-171 | Precalculus Algebra | 4 |
| MAT-152 | Statistical Meth | | 4 | IVIAI I7 I | r reculculus Algebra | 7 |
| SPA-112 | | nish II (or FRE 112) | 3 | 0, 10 | | |
| | Guided Elective: | math or science | 4 | Second Se | | |
| | | | | BIO-112 | General Biology II | 4 |
| | | | | ENG-112 | Writing/Research in the Disc | 3 |
| | | | | HIS-111 | World Civilizations I | 3 |
| | | | | MAT-172 | Precalculus Trigonometry | 4 |

| Third Semo | ird Semester (Summer) | | | Chemistry Pathway - UNC Asheville | | | |
|------------|--|---------------|---|--|------------|--|--|
| CHM-151 | General Chemistry I | 4 | First Seme | ster | Credits | | |
| | | | ACA-122 | College Transfer Success | 1 | | |
| Fourth Sen | ester | | CHM-151 | General Chemistry I | 4 | | |
| ART-111 | Art Appreciation | 3 | COM-231 | Public Speaking | 3 | | |
| BIO-120 | Introductory Botany | 4 | ENG-111 | Writing and Inquiry | 3 | | |
| CHM-152 | General Chemistry II | 4 | MAT-172 | Precalculus Trigonometry | 4 | | |
| MAT-271 | Calculus I | 4 | | · | | | |
| | | | Second Se | mester | | | |
| Fifth Seme | ster | | CHM-152 | General Chemistry II | 4 | | |
| BIO-130 | Introductory Zoology | 4 | ENG-112 | Writing/Research in the Disciplines | 3 | | |
| CHM-251 | Organic Chemistry I | 4 | MAT-271 | Calculus I | 4 | | |
| HUM-220 | Human Values and Meaning | 3 | PSY-150 | General Psychology | 3 | | |
| PSY-150 | General Psychology | 3 | | | | | |
| | | | Third Seme | ester (Summer) | | | |
| Biology P | <u>athway - Western Carolina Unive</u> | <u>ersity</u> | ART-111 | Art Appreciation | 3 | | |
| First Seme | ster | Credits | HIS-111 | World Civilizations I | 3 | | |
| ACA-122 | College Transfer Success | 1 | | | | | |
| BIO-111 | General Biology I | 4 | Fourth Sem | nester | | | |
| COM-231 | Public Speaking | 3 | CHM-251 | Organic Chemistry I | 4 | | |
| ENG-111 | Writing and Inquiry | 3 | MAT-272 | Calculus II | 4 | | |
| MAT-171 | Precalculus Algebra | 4 | PHY-251 | General Physics I | 4 | | |
| Second Se | mester | | Fifth Seme | ster | | | |
| BIO-112 | General Biology II | 4 | CHM-252 | Organic Chemistry II | 4 | | |
| ENG-112 | Writing/Research in the Disc | 3 | HIS-112 | World Civilizations II | 3 | | |
| HIS-111 | World Civilizations I | 3 | HUM-220 | Human Values and Meaning | 3 | | |
| MAT-172 | Precalculus Trigonometry | 4 | PHY-252 | General Physics II | 4 | | |
| Third Seme | ester (Summer) | | Chemistry | <u> Pathway - Appalachian State Univ</u> | ersity and | | |
| CHM-151 | General Chemistry I | 4 | Western Carolina University, and Mars Hill University | | | | |
| | | | First Seme | ster | Credits | | |
| Fourth Sen | ester | | ACA-122 | College Transfer Success | 1 | | |
| ART-111 | Art Appreciation | 3 | CHM-151 | General Chemistry I | 4 | | |
| CHM-152 | General Chemistry II | 4 | COM-231 | Public Speaking | 3 | | |
| MAT-271 | Calculus I | 4 | ENG-111 | Writing and Inquiry | 3 | | |
| PHY-151 | College Physics I | 4 | MAT-172 | Precalculus Trigonometry | 4 | | |
| Fifth Seme | ster | | Second Se | mester | | | |
| HUM-220 | Human Values and Meaning | 3 | CHM-152 | General Chemistry II | 4 | | |
| MAT-152 | Statistics I | 4 | ENG-112 | Writing/Research in the Disciplines | 3 | | |
| | College Physics II | 4 | MAT-271 | Calculus I | 4 | | |
| PHY-152 | | | | | | | |

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| Third Seme | nird Semester (Summer) | | | Science: Information Systems Co | ncentration | |
|--|--------------------------------------|------------|----------------------|---------------------------------|-------------|--|
| ART-111 | Art Appreciation | 3 | Pathway - | · UNC Asheville | | |
| HIS-112 | World Civilizations II | 3 | First Seme | | Credits | |
| | | | ACA-122 | College Transfer Success | 1 | |
| Fourth Sem | ester | | COM-231 | Public Speaking | 3 | |
| CHM-251 | Organic Chemistry I | 4 | ECO-251 | Prin of Microeconomics | 3 | |
| MAT-272 | Calculus II | 4 | ENG-111 | Writing and Inquiry | 3 | |
| PHY-251 | General Physics I | 4 | MAT-171 | Precalculus Algebra | 4 | |
| Fifth Seme | ster | | Second Se | mester | | |
| CHM-252 | Organic Chemistry II | 4 | CIS-115 | Intro to Prog & Logic | 3 | |
| HEA-110 | Personal Health/Wellness | 3 | ECO-252 | Prin of Macroeconomics | 3 | |
| HUM-220 | Human Values and Meaning | 3 | ENG-112 | Writing/Research in the Disc | 3 | |
| PHY-252 | General Physics II | 4 | HIS-111 | World Civilizations I | 3 | |
| | · | | MAT-172 | Precalculus Trigonometry | 4 | |
| Computer | Science: Computer Systems Cond | centration | | ····g······· | | |
| Pathway - Appalachian State University and UNC | | | Third Seme | ester (Summer) | | |
| Asheville | | <u></u> | MAT-271 | Calculus I | 4 | |
| | -4 | 0 | IVIAI-Z7 I | Calculus I | 4 | |
| First Seme | | Credits | F4h O | | | |
| ACA-122 | College Transfer Success | 1 | Fourth Sem | | | |
| COM-231 | Public Speaking | 3 | ART-111 | Art Appreciation | 3 | |
| ECO-251 | Prin of Microeconomics | 3 | BIO-111 | General Biology I | 4 | |
| ENG-111 | Writing and Inquiry | 3 | FRE-111 | Elementary French I (SPA 111) | 3 | |
| MAT-171 | Precalculus Algebra | 4 | MAT-152 | Statistical Methods I | 4 | |
| Second Se | mester | | Fifth Seme | ster | | |
| ART-111 | Art Appreciation | 3 | BIO-112 | General Biology II | 4 | |
| CIS-115 | Intro to Prog & Logic | 3 | CSC-134 | C++ Programming | 3 | |
| ENG-112 | Writing/Research in the Disc | 3 | FRE-112 | Elementary French II (SPA 112) | 3 | |
| HIS-111 | World Civilizations I | 3 | HUM-220 | Human Values and Meaning | 3 | |
| MAT-172 | Precalculus Trigonometry | 4 | | | | |
| | | | - | Science - Western Carolina Univ | ersity and | |
| | ester (Summer) | | Mars Hill University | | | |
| MAT-271 | Calculus I | 4 | First Seme | | Credits | |
| F41- O | | | ACA-122 | College Transfer Success | 1 | |
| Fourth Sem | | | COM-231 | Public Speaking | 3 | |
| CSC-151 | JAVA Programming | 3 | ECO-251 | Prin of Microeconomics | 3 | |
| HEA-110 | Personal Health/Wellness | 3 | ENG-111 | Writing and Inquiry | 3 | |
| MAT-272 | Calculus II | 4 | MAT-171 | Precalculus Algebra | 4 | |
| PHY-251 | General Physics I | 4 | Second Se | | | |
| F: (-) - O | | | BIO-111 | General Biology I | 4 | |
| Fifth Seme | | | CIS-115 | Intro to Prog & Logic | 3 | |
| CSC-134 | C++ Programming | 3 | ENG-112 | Writing/Research in the Disc | 3 | |
| HUM-220 | Human Values and Meaning | 3 | HIS-111 | World Civilizations I | 3 | |
| | Linear Alachra | 2 | NAAT 170 | Precalculus Trigonometry | 4 | |
| MAT-280 PHY-252 | Linear Algebra General Physics II | 3 | MAT-172 | Trecalculus irigoriometry | 7 | |

| Third Seme | ester (Summer) | | Environmental Science Pathway - UNC Asheville | | | |
|------------|---------------------------------|-------------|---|--|------------|--|
| MAT-271 | Calculus I | 4 | First Seme | ster | Credits | |
| | | | ACA-122 | College Transfer Success | 1 | |
| Fourth Sem | nester | | CHM-151 | General Chemistry I | 4 | |
| BIO-112 | General Biology II | 4 | COM-231 | Public Speaking | 3 | |
| CSC-134 | C++ Programming | 3 | ENG-111 | Writing and Inquiry | 3 | |
| HEA-110 | Personal Health/Wellness | 3 | MAT-171 | Precalculus Algebra | 4 | |
| MAT-272 | Calculus II | 4 | | g | | |
| Fifth Seme | -4 | | Second Se | mester | | |
| | | | CHM-152 | General Chemistry II | 4 | |
| ART-111 | Art Appreciation | 3 | ENG-112 | Writing/Research in the Disc | 3 | |
| CHM-151 | General Chemistry I | 4 | FRE-111 | Elementary French I (or SPA 111) | 3 | |
| 000 454 | (or PHY 151 or PHY 251) | 0 | MAT-172 | Precalculus Trigonometry | 4 | |
| CSC-151 | JAVA Programming | 3 | | | | |
| HUM-220 | Human Values and Meaning | 3 | Third Seme | ester (Summer) | | |
| Environme | ental Science Pathway - Appalac | chian State | MAT-152 | Statistical Methods I | 4 | |
| University | • • • • | | | | | |
| First Seme | ster | Credits | Fourth Sem | nester | | |
| ACA-122 | College Transfer Success | 1 | BIO-111 | General Biology I | 4 | |
| CHM-151 | General Chemistry I | 4 | ECO-251 | Prin of Microeconomics | 3 | |
| COM-231 | Public Speaking | 3 | FRE-112 | Elementary French II (or SPA 112) | 3 | |
| ENG-111 | Writing and Inquiry | 3 | HIS-112 | World Civilizations II | 3 | |
| MAT-171 | Precalculus Algebra | 4 | PHI-240 | Introduction to Ethics | 3 | |
| Second Se | montor | | Fifth Seme | ster | | |
| | | 4 | BIO-130 | Introductory Zoology | 4 | |
| CHM-152 | General Chemistry II | 4 | BIO-140 | Environmental Biology | 3 | |
| ECO-251 | Prin of Microeconomics | 3 | BIO-140A | Environmental Biology Lab | 1 | |
| ENG-112 | Writing/Research in the Disc | 3 | GEL-111 | Introductory Geology | 4 | |
| MAT-172 | Precalculus Trigonometry | 4 | HUM-220 | Human Values and Meaning | 3 | |
| Third Seme | ester (Summer) | | | | | |
| MAT-271 | Calculus I | 4 | Math Path University | nway - UNC Asheville and Mars H | <u>ill</u> | |
| Fourth Sem | nester | | First Seme | _ | Credits | |
| BIO-111 | General Biology I | 4 | ACA-122 | College Transfer Success | 1 | |
| MAT-272 | Calculus II | 4 | COM-231 | Public Speaking | 3 | |
| PHI-240 | Introduction to Ethics | 3 | ECO-251 | Prin of Microeconomics | 3 | |
| PHY-251 | General Physics I | 4 | ENG-111 | Writing and Inquiry | 3 | |
| Fifth Seme | | , | MAT-172 | Precalculus Trigonometry | 3 | |
| GEL-111 | Geology | 4 | IVIMI-172 | (or MAT 271) | 4 | |
| HIS-112 | World Civilizations II | 3 | Second Se | | | |
| HUM-220 | Human Values and Meaning | 3 | CIS-115 | | 3 | |
| PHY-252 | General Physics II | 4 | | Intro to Prog & Logic | | |
| | Contrait hydiod ii | 7 | ENG-112 | Writing/Research in the Disc | 3 | |
| | | | HIS-111 MAT-271 | World Civilizations I Calculus I (or MAT 272) | 3 | |
| | | | | LOIGHIUG LIOT NAVI 1771 | 4 | |

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|------------------|--|-------------|-------------|-----------------------------------|---------|
| Third Seme | ester (Summer) | | HUM-220 | Human Values and Meaning | 3 |
| HIS-112 | World Civilizations II | 3 | MAT-273 | Calculus III | 4 |
| MAT-272 | Calculus II (or MAT 273) | 4 | | | |
| | | | Physics P | athway - Appalachian State Unive | ersity |
| Fourth Sem | ester | | First Seme | ster | Credit |
| CHM-151 | General Chemistry I | 4 | ACA-122 | College Transfer Success | 1 |
| CSC-151 | JAVA Programming | 3 | CHM-151 | General Chemistry I | 4 |
| FRE-111 | Elementary French I (or SPA 111) | 3 | COM-231 | Public Speaking | 3 |
| MAT-273 | Calculus III | 4 | ENG-111 | Writing and Inquiry | 3 |
| | | | MAT-171 | Precalculus Algebra | 4 |
| Fifth Semes | ster | | | | |
| ART-111 | Art Appreciation | 3 | Second Se | mester | |
| CHM-152 | General Chemistry II (or PHY 252) | 4 | ART-111 | Art Appreciation | 3 |
| FRE-112 | Elementary French II (or SPA 112) | 3 | ECO-251 | Prin of Microeconomics | 3 |
| HUM-220 | Human Values and Meaning | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| | | | MAT-172 | Precalculus Trigonometry | 4 |
| Math Path | <u>ıway - Western Carolina Universit</u> | <u>y or</u> | | | |
| <u>Appalachi</u> | ian State University | | Third Seme | ester | |
| First Semes | ster | Credits | MAT-271 | Calculus I | 4 |
| ACA-122 | College Transfer Success | 1 | | | |
| COM-231 | Public Speaking | 3 | Fourth Sem | ester | |
| ECO-251 | Prin of Microeconomics | 3 | FRE-111 | Elementary French I (or SPA 111) | 3 |
| ENG-111 | Writing and Inquiry | 3 | HIS-111 | World Civilizations I | 3 |
| MAT-171 | Precalculus Algebra | 4 | MAT-272 | Calculus II | 4 |
| | | | PHY-251 | General Physics I | 4 |
| Second Se | mester | | | | |
| ENG-112 | Writing/Research in the Disc | 3 | Fifth Seme | ster | |
| HEA-110 | Personal Health/Wellness | 3 | FRE-112 | Elementary French II (or SPA 112) | 3 |
| HIS-112 | World Civilizations II | 3 | HUM-220 | Human Values and Meaning | 3 |
| MAT-172 | Precalculus Trigonometry | 4 | MAT-273 | Calculus III | 4 |
| | (or MAT 271) | | PHY-252 | General Physics II | 4 |
| PHI-240 | Introduction to Ethics | 3 | | | |
| | | | Physics P | athway - UNC Asheville | |
| | ester (Summer) | | First Semes | ster | Credits |
| MAT-271 | Calculus I (or MAT 272) | 4 | ACA-122 | College Transfer Success | 1 |
| Fourth Sem | ester | | CHM-151 | General Chemistry I | 4 |
| CHM-151 | General Chemistry I (or PHY 251) | 4 | COM-231 | Public Speaking | 3 |
| ECO-252 | Prin of Macroeconomics | 3 | ENG-111 | Writing and Inquiry | 3 |
| | (or MAT 272) | | MAT-271 | Calculus I | 4 |
| FRE-111 | Elementary French I (or SPA 111) | 3 | | | |
| MAT-280 | Linear Algebra | 3 | Second Se | mester | |
| | | | ENG-112 | Writing/Research in the Disc | 3 |
| Fifth Semes | ster | | HIS-112 | World Civilizations II | 3 |
| CHM-152 | General Chemistry II (or PHY 252) | 4 | MAT-272 | Calculus II | 4 |
| FRE-112 | Elementary French II (or SPA 112) | 3 | PHY-251 | General Physics I | 4 |
| abtech.edu | | | | | |

| Third Semester | | | Pre-Med | | |
|----------------|---|-----------------|----------------|------------------------------|---------|
| HIS-111 | World Civilizations I | 3 | First Seme | - | Credits |
| | | | ACA-122 | College Transfer Success | 1 |
| Fourth Sen | nester | | CHM-151 | General Chemistry I | 4 |
| ART-111 | Art Appreciation | 3 | ENG-111 | Writing and Inquiry | 3 |
| FRE-111 | Elementary French I (or SPA 111) | 3 | MAT-271 | Calculus I | 4 |
| MAT-273 | Calculus III | 4 | PSY-150 | General Psychology | 3 |
| PHY-252 | General Physics II | 4 | | | |
| | | | Second Se | mester | |
| Fifth Seme | ster | | CHM-152 | General Chemistry II | 4 |
| ECO-251 | Prin of Microeconomics | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| FRE-112 | Elementary French II (or SPA 112) | 3 | MAT-272 | Calculus II | 4 |
| HUM-220 | Human Values and Meaning | 3 | PHI-240 | Introduction to Ethics | 3 |
| MAT-285 | Differential Equations | 3 | | | |
| PED-110 | Fit and Well for Life | 2 | Third Seme | ester (Summer) | |
| | | | BIO-111 | General Biology I | 4 |
| Pre-Denta | al Pathway | | | | |
| First Seme | First Semester Credits | | | ester | |
| ACA-122 | College Transfer Success | 1 | BIO-112 | General Biology II | 4 |
| CHM-151 | General Chemistry I | 4 | CHM-251 | Organic Chemistry I | 4 |
| COM-231 | Public Speaking | 3 | ENG-232 | American Literature II | 3 |
| ENG-111 | Writing and Inquiry | 3 | PHY-151 | College Physics I | 4 |
| MAT-171 | Precalculus Algebra | 4 | | | |
| Second Se | - | | Fifth Semester | | |
| CHM-152 | | 4 | CHM-252 | Organic Chemistry II | 4 |
| ENG-112 | General Chemistry II Writing/Research in the Disc | 4 3 | HIS-131 | American History I | 3 |
| MAT-172 | Precalculus Trigonometry | 4 | HUM-220 | Human Values and Meaning | 3 |
| PSY-150 | General Psychology | 3 | PHY-152 | College Physics II | 4 |
| | | 3 | | | |
| | ester (Summer) | | Pre-Pharm | nacy Pathway | |
| BIO-111 | General Biology I | 4 | First Semester | | Credits |
| Fourth Sen | nester | | ACA-122 | College Transfer Success | 1 |
| BIO-112 | General Biology II | 4 | CHM-151 | General Chemistry I | 4 |
| CHM-251 | Organic Chemistry I | 4 | COM-231 | Public Speaking | 3 |
| PHI-240 | Introduction to Ethics | 3 | ENG-111 | Writing and Inquiry | 3 |
| PHY-151 | College Physics I | 4 | MAT-172 | Precalculus Trigonometry | 4 |
| Fifth Semester | | Second Semester | | | |
| CHM-252 | Organic Chemistry II | 4 | CHM-152 | General Chemistry II | 4 |
| HIS-112 | World Civilizations II | 3 | ECO-251 | Prin of Microeconomics | 3 |
| HUM-220 | Human Values and Meaning | 3 | ENG-112 | Writing/Research in the Disc | 3 |
| PHY-152 | College Physics II | 4 | MAT-271 | Calculus I | 4 |
| | | | Third Seme | ester (Summer) | |
| | | | BIO-111 | General Biology I | 4 |

| Fourth Sem | purth Semester | | | Pre-Physician's Assistant Pathway | | | |
|------------|--------------------------------|---------|--------------|---|-----------|--|--|
| CHM-251 | Organic Chemistry I | 4 | First Seme | ster | Credits | | |
| MAT-152 | Statistical Methods I | 4 | ACA-122 | College Transfer Success | 1 | | |
| MUS-110 | Music Appreciation | 3 | CHM-151 | General Chemistry I | 4 | | |
| PHY-151 | College Physics I (or PHY 251) | 4 | COM-231 | Public Speaking | 3 | | |
| | | | ENG-111 | Writing and Inquiry | 3 | | |
| Fifth Seme | ster | | MAT-171 | Precalculus Algebra | 4 | | |
| BIO-275 | Microbiology | 4 | | 3 | | | |
| | (or BIO 163 or BIO 168/169) | | Second Se | mester | | | |
| CHM-252 | Organic Chemistry II | 4 | CHM-152 | General Chemistry II | 4 | | |
| HIS-112 | World Civilization II | 3 | ENG-112 | Writing/Research in the Disc | 3 | | |
| HUM-220 | Human Values and Meaning | 3 | MAT-172 | Precalculus Trigonometry | 4 | | |
| Pre-Physi | cal Therapy Pathway | | PSY-150 | General Psychology | 3 | | |
| First Seme | ster | Credits | Third Seme | ester (Summer) | | | |
| ACA-122 | College Transfer Success | 1 | BIO-168 | Anatomy and Physiology I | 4 | | |
| CHM-151 | General Chemistry I | 4 | | | | | |
| COM-231 | Public Speaking | 3 | Fourth Sem | nester | | | |
| ENG-111 | Writing and Inquiry | 3 | BIO-111 | General Biology I | 4 | | |
| MAT-171 | Precalculus Algebra | 4 | BIO-169 | Anatomy & Physiology II | 4 | | |
| | | | MAT-152 | Statistical Methods I | 4 | | |
| Second Se | mester | | MUS-110 | Music Appreciation | 3 | | |
| CHM-152 | General Chemistry II | 4 | | | | | |
| ENG-112 | Writing/Research in the Disc | 3 | Fifth Seme | ster | | | |
| MAT-172 | Precalculus Trigonometry | 4 | BIO-175 | General Microbiology | 3 | | |
| PSY-150 | General Psychology | 3 | 510 170 | (or BIO 275, CHM 271, or BIO 112) | Ü | | |
| | | | HIS-112 | World Civilizations II | 3 | | |
| Third Seme | ester (Summer) | | HUM-220 | Human Values and Meaning | 3 | | |
| BIO-111 | General Biology I | 4 | MAT-152 | Statistical Methods I | 4 | | |
| | | | BIO requiren | nents vary according to the university. Con | sult your | | |
| Fourth Sem | nester | | advisor befo | ore registering for a BIO course. | | | |
| BIO-112 | General Biology II | 4 | | | | | |
| BIO-168 | Anatomy & Physiology I | 4 | Pre-Veter | inarian Pathway - NC State Univer | eitv | | |
| PHI-240 | Introduction to Ethics | 3 | | • | • | | |
| PHY-151 | College Physics I | 4 | First Seme | | Credits | | |
| | | | ACA-122 | College Transfer Success | 1 | | |
| Fifth Seme | ster | | COM-231 | Public Speaking | 3 | | |
| BIO-169 | Anatomy & Physiology II | 4 | CHM-151 | General Chemistry I | 4 | | |
| HIS-132 | American History II | 3 | ENG-111 | Writing and Inquiry | 3 | | |
| HUM-220 | Human Values and Meaning | 3 | MAT-171 | Precalculus Algebra | 4 | | |
| PHY-152 | College Physics II | 4 | | | | | |
| | | | Second Se | | | | |
| | | | CHM-152 | General Chemistry II | 4 | | |
| | | | ECO-251 | Prin of Microeconomics | 3 | | |
| | | | ENG-112 | Writing/Research in the Disc | 3 | | |
| | | | MAT-172 | Precalculus Trigonometry | 4 | | |

| Third Same | ester (Summer) | | | 707 |
|------------|---|---------|------------------------------|--|
| BIO-111 | General Biology I | 4 | Associat | e in Fine Arts in Visual Arts |
| DIO-TTT | deliciai biology i | 4 | | gree (A10600) |
| Fourth Sen | nester | | | te in Fine Arts in Visual Arts degree shall |
| CHM-251 | Organic Chemistry I | 4 | _ | or a planned program of study consisting |
| MAT-152 | Statistical Methods I (or BIO 275) | 4 | | m of 60 semester hours of college transfer thin the degree program, the institution |
| MUS-110 | Music Appreciation | 3 | | e opportunities for the achievement of |
| PHY-151 | College Physics I | 4 | | in reading, writing, oral communication, |
| | | | fundamental use. | l mathematical skills, and basic computer |
| Fifth Seme | ster | | use. | |
| CHM-252 | Organic Chemistry II | 4 | | ist meet the receiving university's foreign |
| HIS-111 | World Civilizations I | 3 | | d/or health and physical education |
| HUM-220 | Human Values and Meaning | 3 | requirement the senior in | s, if applicable, prior to or after transfer to |
| PHY-152 | College Physics II | 4 | the semon in | istitution. |
| | | | Total Semes | ter Hours Credit (SHC) in Program: 60-61. |
| Pre-Engin | neering Pathway | | | er hour of credit may be included in a 61 |
| First Seme | - · · · · · · · · · · · · · · · · · · · | Credits | | te in Fine Arts in Visual Arts program of ransfer of this hour is not guaranteed. |
| ACA-122 | College Transfer Success | 1 | study. The ti | ransier of this flour is not guaranteed. |
| COM-231 | Public Speaking | 3 | Students mu | ist meet the receiving university's foreign |
| EGR-150 | Introduction to Engineering | | | d/or health and physical education |
| ENG-111 | | 2 | - | s, if applicable, prior to or after transfer to |
| MAT-171 | Writing and Inquiry | 3 | the senior in | istitution. |
| IVIAI-171 | Precalculus Algebra | 4 | UNIVERSAL. | GENERAL EDUCATION TRANSFER |
| 010- | | | (UGETC) CO | |
| Second Se | | | All Universal | l General Education Transfer Component |
| DFT-170 | Engineering Graphics | 3 | courses will | transfer for equivalency credit. |
| ENG-112 | Writing/Research in the Disc | 3 | | |
| MAT-172 | Precalculus Trigonometry | 4 | General Educ | ation (25-26 Hours) |
| PHI-240 | Introduction to Ethics | 3 | English Comp | osition - 6 hours |
| | | | ENG-111 | Writing and Inquiry |
| Third Sem | ester (Summer) | | ENG-112 | Writing/Research in the Disc |
| ECO-251 | Prin of Microeconomics | 3 | | • |
| HUM-110 | Technology and Society | 3 | | on and Humanities/Fine Arts (Courses must be |
| | | | from two diffe | erent disciplines) - 6 hours |
| Fourth Sen | nester | | ART-111 | Art Appreciation |
| BIO-111 | General Biology I | 4 | COM-120 | Intro to Interpersonal Com |
| COM-110 | Introduction to Communication | 3 | COM-231 | Public Speaking |
| CHM-151 | General Chemistry I | 4 | ENG-231 | American Literature I |
| HIS-112 | World Civilizations II | 3 | ENG-232 | American Literature II |
| - | | - | ENG-241 | British Literature I |
| Fifth Seme | etar | | ENG-242 | British Literature II |
| | | | MUS-110 | Music Appreciation |
| CHM-152 | General Chemistry II | 4 | MUS-112 | Introduction to Jazz |
| ECO-252 | Prin of Macroeconomics | 3 | PHI-215 | Philosophical Issues |
| HUM-220 | Human Values and Meaning | 3 | PHI-240 | Introduction to Ethics |
| PED-110 | Fit and Well for Life | 2 | | |
| PSY-150 | General Psychology | 3 | | |

| Social / Beha | vioral Sciences (Courses must be from at least | Pre-Major: A | ART (15 hours) | | |
|--------------------|--|----------------|------------------|-------------------|---------|
| two disciplin | es) - 6 hours | Select five | courses from the | following: | |
| ECO-251 | Prin of Microeconomics | ART-171 | Digital Desi | gn I | |
| ECO-252 | Prin of Macroeconomics | ART-231 | Printmaking | I | |
| HIS-111 | World Civilizations I | ART-240 | Painting I | | |
| HIS-112 | World Civilizations II | ART-244 | Watercolor | | |
| HIS-131 | American History I | ART-261 | Photography | / I | |
| HIS-132 | American History II | ART-264 | Digital Photo | ography I | |
| POL-120 | American Government | ART-266 | Videography | / I | |
| PSY-150 | General Psychology | ART-267 | Videography | / II | |
| SOC-210 | Introduction to Sociology | ART-275 | Introduction | to Graphic Design | ı |
| | | ART-276 | Interactive N | Media Design | |
| Mathematics | - 3-4 hours | ART-281 | Sculpture I | | |
| MAT-143 | Quantitative Literacy | ART-283 | Ceramics I | | |
| MAT-152 | Statistical Methods I | ART-284 | Ceramics II | | |
| MAT-171 | Precalculus Algebra | | | | |
| MAT-271 | Calculus I | Additional h | ours from the li | st below (3-4 ho | urs) |
| MAT-272 | Calculus II | ACC-120 | BIO-155 | ECO-151 | HUM-110 |
| | | ACC-121 | BIO-163 | ECO-251 | HUM-115 |
| Natural Scier | nces - 4 hours | ANT-220 | BIO-168 | ECO-252 | HUM-120 |
| AST-111 | Descriptive Astronomy and AST 111A Descriptive | ART-111 | BIO-169 | EDU-144 | HUM-160 |
| | Astronomy Lab | ART-114 | BIO-175 | EDU-145 | HUM-220 |
| BIO-110 | Principles of Biology | ART-115 | BIO-271 | EDU-216 | MAT-143 |
| BIO-111 | General Biology I | ART-121 | BIO-275 | EDU-221 | MAT-152 |
| CHM-151 | General Chemistry I | ART-122 | BUS-110 | EGR-150 | MAT-171 |
| GEL-111 | Geology | ART-131 | BUS-115 | EGR-212 | MAT-172 |
| PHY-110 | Conceptual Physics and PHY 110A Conceptual | ART-171 | BUS-137 | EGR-215 | MAT-252 |
| | Physics Lab | ART-214 | CHM-130 | EGR-216 | MAT-263 |
| | | ART-231 | CHM130A | EGR-220 | MAT-271 |
| ART (15 hours | | ART-240 | CHM-132 | EGR-228 | MAT-272 |
| | iversal General Education Transfer Courses: | ART-244 | CHM-151 | ENG-114 | MAT-273 |
| ART | Ant History Common I | ART-261 | CHM-152 | ENG-125 | MAT-280 |
| ART-114 | Art History Survey I | ART-264 | CHM-251 | ENG-231 | MAT-285 |
| ART-115 | Art History Survey II | ART-266 | CHM-252 | ENG-232 | MUS-110 |
| Other Require | | ART-267 | CHM-271 | ENG-241 | MUS-112 |
| ART-121 | Two-Dimensional Design | ART-275 | CIS-110 | ENG-242 | MUS-121 |
| ART-122 | Three-Dimensional Design | ART-276 | CIS-115 | FRE-111 | MUS-122 |
| ART-131 | Drawing I | ART-281 | CJC-111 | FRE-112 | MUS-125 |
| Othor Possira | ed Hours (2 hours) | ART-283 | CJC-121 | FRE-211 | MUS-126 |
| ACA-122 | College Transfer Success | ART-284 | CJC-141 | FRE-212 | MUS-131 |
| ACA-122 ART-214 | Portfolio and Resume | AST-111 | COM-110 | GEL-111 | MUS-132 |
| An 1-214 | Fortiono and nesume | AST-111A | COM-120 | GIS-111 | MUS-231 |
| An addition | al 17-19 SHC of courses should be selected | BIO-110 | COM-140 | HEA-110 | MUS-232 |
| | rses classified as pre-major, elective, | BIO-111 | COM-150 | HEA-112 | PED-110 |
| | cation, or UGETC within the Comprehensive | BIO-112 | COM-231 | HIS-111 | PED-117 |
| | Agreement. Students should select these | BIO-120 | CSC-134 | HIS-112 | PED-118 |
| | ed on their intended major and Transfer | BIO-130 | CSC-151 | HIS-131 | PED-119 |
| University. | | BIO-140 | CTS-115 | HIS-132 | PED-120 |
| | | BIO-140A | DFT-170 | HIS-236 | PED-122 |
| | | | | | |

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|-------------------------------|---|------------------|-------------|------------------|--|---------------|
| PED-123 | PED-217 | PHY-251 | SOC-213 | <u>Associate</u> | <u>e in Fine Arts - Visual Arts, Studi</u> | o Art Pathway |
| PED-125 | PED-218 | PHY-252 | SOC-220 | First Fall S | emester | Credits |
| PED-126 | PED-235 | POL-120 | SOC-225 | ACA-122 | College Transfer Success | 1 |
| PED-128 | PHI-215 | POL-220- | SOC-240 | ART-121 | Two-Dimensional Design | 3 |
| PED-130 | PHI-240 | PSY-150 | SPA-111 | ART-131 | Drawing I | 3 |
| PED-143 | PHY-110 | PSY-237 | SPA-112 | ENG-111 | Writing and Inquiry | 3 |
| PED-145 | PHY-110A | PSY-241 | SPA-211 | MAT-143 | Quantitative Literacy | 3 |
| PED-171 | PHY-151 | PSY-281 | SPA-212 | | , | |
| PED-211 | PHY-152 | SOC-210 | | First Snrin | g Semester | |
| | | | | ART-122 | Three-Dimensional Design | 3 |
| | <u>e in Fine Arts - Vi</u> | sual Arts, Grap | ohic Design | BIO-110 | Principles of Biology | 4 |
| <u>Pathway</u> | | | | ENG-112 | Writing/Research in the Disc | 3 |
| First Fall S | emester | | Credits | LING-112 | ART Elective | 3 |
| ACA-122 | College Transfer | Success | 1 | | ATTI LICCTIVE | J |
| ART-121 | Two-Dimensional | | 3 | 0 | | |
| ART-131 | Drawing I | · · | 3 | Summer S | | |
| ENG-111 | Writing and Inqui | ry | 3 | MUS-110 | Music Appreciation | 3 |
| MAT-143 | Quantitative Liter | асу | 3 | PSY-150 | General Psychology | 3 |
| | | | | | | |
| First Sprine | g Semester | | | Second Fa | II Semester | |
| ART-122 | Three-Dimension | al Design | 3 | ART-114 | Art History Survey I | 3 |
| ART-171 | Digital Design I | ar Dosigii | 3 | HIS-111 | World Civilizations I | 3 |
| BIO-110 | Principles of Biolo | Juv | 4 | | UGETC/GenEd Elective | 3 |
| ENG-112 | Writing/Research | | 3 | | ART Elective | 3 |
| 2110 112 | vvii ing/ necesion | 1 111 1110 12100 | Ü | | ART Elective | 3 |
| Summer So | emester | | | | | |
| MUS-110 | Music Appreciati | on | 3 | | oring Semester | |
| PSY-150 | General Psycholo | | 3 | ART-115 | Art History Survey II | 3 |
| | , | <i>57</i> | | ART-214 | Portfolio and Resume | 1 |
| Second Fa | II Semester | | | COM-231 | Public Speaking | 3 |
| ART-114 | Art History Surve | v.l | 2 | | ART Elective | 3 |
| ART-114 ART-275 | Introduction to G | | 3 | | ART Elective | 3 |
| HIS-111 | World Civilization | - | 3 | | | |
| піо-і і і | UGETC/GenEd Ele | | | | | |
| | ART Elective | ective | 3 | | | |
| 010 | | | 3 | | | |
| _ | ring Semester | | | | | |
| ART-115 | Art History Surve | | 3 | | | |
| | | | 1 | | | |
| | | a Design | 3 | | | |
| COM-231 | | | | | | |
| | ART Elective | | 3 | | | |
| ART-214 ART-276 COM-231 | Portfolio and Res Interactive Media Public Speaking ART Elective | ume | 1 3 3 | | | |

Associate in General Occupational Technology Degree (A55280)

The General Occupational Technology curriculum provides individuals with an opportunity to upgrade skills and to earn an associate degree, diploma, and/or certificate by taking courses suited for individual occupational interests and/or needs.

The curriculum content will be customized for students according to occupational interests and needs. A program of study for each student will be selected from any non-developmental level courses offered by the College.

Graduates will become more effective workers, better qualified for advancements within their field of employment, and become qualified for a wide range of entry-level employment opportunities.

A.A.S. Requirements

General Education (Minimum 15 Hours)

Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications.

General Education (15 hours)

| ENG-111 Writing and Inquiry (or ENG-110) | 3 |
|--|---|
| Communication/English | 3 |
| Humanities/Fine Arts | 3 |
| Social/Behavioral Sciences | 3 |
| Natural Sciences/Mathematics | 3 |

Major Hours (Minimum 49 Hours)

AAS programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit.

Other Required Hours (0-7 Hours)

A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

Total Semester Hours Credit (SHC) in A.A.S. Degree: 64-76

Diploma Requirements

General Education (Minimum 6 Hours)

Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications.

General Education (6 hours)

ENG-111 Writing and Inquiry (or ENG-110) 3
Additional credits 3
(Communication/English, Humanities/Fine Arts, Social/Behavioral Sciences, Natural Sciences/Mathematics)

Major Hours (Minimum 30 Hours)

Diploma programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 4 semester hours of credit.

Other Required Hours (0-4 Hours)

A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

Total Semester Hours Credit (SHC) in Diploma: 34-48

Certificate Requirements

General Education (Optional)

General education is optional in certificate programs.

(Communication/English, Humanities/Fine Arts, Social/Behavioral Sciences, Natural Sciences/Mathematics)

Major Hours (Minimum 12 Hours)

Diploma programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 4 semester hours of credit.

Arts and Sciences

Other Required Hours (0-1 Hours)

A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

Total Semester Hours Credit (SHC) in Certificate: 12-18

Associate in General Education Degree (A10300)

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development.

Course work includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers will be provided.

Through these skills, students will have a sound base for lifelong learning. Graduates are prepared for advancements within their field of interest and become better qualified for a wide range of employment opportunities.

Certificates and diplomas are not allowed under this degree program.

General Education (15 Hours)

The associate in general education curriculum program shall include a minimum of 15 semester hours of credit from general education curriculum courses selected from the Combined Course Library, including six hours in communications, three hours in humanities/fine arts, three hours in social/behavioral sciences, and three hours in natural sciences or mathematics.

Courses must be at the 110-199 or 210-299 level

General Education (15 hours)

| ENG-111 Writing and Inquiry (or ENG-110) | 3 |
|--|---|
| Communication/English | 3 |
| Humanities/Fine Arts | 3 |
| Social/Behavioral Sciences | 3 |
| Natural Sciences/Mathematics | 3 |

Other Major Hours (49-50 Hours)

A maximum of 7 SHC in health (HEA), physical education (PED), college orientation, and/or study skills (ACA) may be included. Selected topics (SEL) or seminar courses (SEM) may be included in a program of study up to a maximum of three-semester hours credit.

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM: 64-65

Business & Hospitality Education

The Business & Hospitality Education Division provides technical postsecondary education in the academic departments of Administrative/ Medical Systems Technology; Aviation Management & Career Pilot Technology; Baking and Pastry Arts; Brewing, Distillation and Fermentation; Business Administration; Culinary Arts; Hospitality Management; Information Technology; and Spa Therapies and Operations. Programs of study are specifically designed to provide students with necessary job skills to meet the personnel needs of local employers. All programs emphasize the mastery of analytical and technology-related skills. Business and Hospitality faculty work in partnership with local employers and program advisory committees to provide students with an appropriate foundation of theoretical and hands-on experiences. Some programs offer weekend classes. For students interested in starting or managing their own business, the Student Business Incubator is one of many programs and services offered by the A-B Tech Small Business Center/Business Incubator.

Objectives of Business and Hospitality Programs

- To provide students with the necessary skills to compete in local business or hospitality job markets while gaining an appreciation for global markets.
- To provide students with a challenging and rigorous program of study emphasizing oral and written communication skills along with analytical, computational, and technical proficiencies.
- To provide an interactive partnership between students, employers and faculty through a variety of methods, including cooperative work experiences, guest lecturers, field trips, and advisory committee input.
- To invest in the human capital of Buncombe and Madison counties and contribute to the economic development of the business and hospitality community.

Graduation Requirements

Because of rapid changes in workplace technologies, certain technical courses will "time out" after five years and must be repeated for graduation. Exceptions must be approved by the department chairperson.

A.A.S. Degrees

Accounting

Aviation Management & Career Pilot Technology - Aviation Management

Aviation Management & Career Pilot Technology - Career Pilot

Baking and Pastry Arts

Brewing, Distillation and Fermentation

Business Administration: General Business Administration

Business Administration: Marketing & Retailing

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Cosmetology Culinary Arts

Digital Media Technology Hospitality Management

Information Technology: Information Systems Information Technology: Network Management

Information Technology: Software and Web Development

Information Technology: Systems Security

Medical Office Administration Office Administration: General Office Office Administration: Finance

Diplomas

Brewing Methods and Operations Business Administration Cosmetology Distillation Methods and Operations Medical Office Administration Office Administration

Certificates

Accounting

Aviation - Instrument Rating
Aviation - Private Pilot
Baking and Pastry Arts
Cosmetology Instructor
Culinary Studies
Craft Beverage Lab
Digital Media Technology Digital Video
Digital Media Technology Design Level I
Digital Media Technology Design Level II

Esthetics Technology Hospitality Management

Information Technology: Computer Fundamentals Information Technology: GIS Fundamentals

Information Technology: PC Installation and Maintenance Information Technology: Network Systems Administration

Information Technology: CCNA Preparation
Information Technology: Web Developer Level I
Information Technology: Web Developer Level II
Information Technology: Database Management
Information Technology: Systems Security

Manicuring/Nail Technology

Medical Coding Office Management Retail Marketing

Word Processing/Desktop Publishing

Accounting and Finance

The Accounting and Finance curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting and finance profession. Accountants and finance professionals assemble and analyze, process, and communicate essential information about financial operations.

Course work may include accounting, finance, ethics, business law, computer applications, financial planning, insurance, marketing, real estate, selling, and taxation. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry level accounting and finance positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies.

Accounting Associate in Applied Science Degree (A25800)

BUS-125

ECO-252

Courses requiring a grade of "C" or better: ACA, ACC, BUS, CIS, CTS, ECO and MKT

| First Semest | Credits | |
|--------------|-------------------------------|---|
| ACA-115 | Success & Study Skills | 1 |
| ACC-120 | Prin of Financial Accounting | 4 |
| CIS-110 | Introduction to Computers | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| Second Sem | ester (Spring) | |
| ACC-121 | Prin of Managerial Accounting | 4 |
| ACC-150 | Accounting Software Appl | 2 |
| BUS-115 | Business Law I | 3 |
| CTS-130 | Spreadsheet | 3 |
| MKT-120 | Principles of Marketing | 3 |
| Third Semes | ter (Summer) | |
| BUS-137 | Principles of Management | 3 |
| COM-231 | Public Speaking | 3 |
| ECO-251 | Principles of Microeconomics | 3 |
| HUM-115 | Critical Thinking | 3 |
| Fourth Seme | ster (Fall) | |
| ACC-129 | Individual Income Taxes | 3 |
| ACC-140 | Payroll Accounting | 2 |
| ACC-220 | Intermediate Accounting I | 4 |

Personal Finance

Principles of Macroeconomics

| Fifth Semester (Spring) | | | |
|-----------------------------|-------------------------------|---|--|
| ACC-130 | Business Income Taxes | 3 | |
| ACC-180 | Practices in Bookkeeping | 3 | |
| ACC-269 | Auditing & Assurance Services | 3 | |
| BUS-110 | Introduction to Business | 3 | |
| BUS-147 | Business Insurance | 3 | |
| Total Credit Hours Required | | | |

Accounting Certificate (C25800L1)

The accounting certificate provides training for the entry level accountant. This certification gives the successful candidate a specialization in the accounting field. When coupled with previous experience or an existing degree in another field this certification may lead to advancement in the field.

Courses requiring a grade of "C" or better: ACC

| First Semest | Credits | | |
|--------------------------|-------------------------------------|---|--|
| ACC-120 | Principles of Financial Accounting | 4 | |
| ACC-129 | Individual Income Taxes | 3 | |
| | | | |
| Second Semester (Spring) | | | |
| ACC-121 | Principles of Managerial Accounting | 4 | |
| ACC-140 | Payroll Accounting | 2 | |
| ACC-150 | Accounting Software Applications | 2 | |
| ACC-180 | Practices in Bookkeeping | 3 | |
| Total Credit I | 18 | | |

Aviation Management & Career Pilot <u>Technology</u>

The Aviation Management and Career Pilot Technology curriculum prepares individuals for a variety of aviation and aviation-related careers including the commercial airlines, general aviation, the aerospace industry, the military, and state and federal aviation organizations.

Course work includes fundamentals of flight, aerodynamics, aircraft performance, meteorology, navigation, federal regulations, aviation management, and instrument and commercial ground training. Course options include flight training or business management training.

Graduates will hold a commercial pilot certificate (license) with an instrument rating or specialize in aviation management. Graduates may find employment as commercial, corporate, and military pilots, fixed-base operators, airport managers, flight instructors, and flight dispatchers.

The Aviation Management & Career Pilot Technology program is approved by:

Federal Aviation Administration

800 Independence Avenue Washington, DC 20591 Phone: (703) 230-1664 www.faa.gov

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Catalog 2020-2021

Federal Aviation Administration

Charlotte Flight Standards District Office (FSDO) 3800 Arco Corporate Drive, Suite 233

Charlotte, NC 28273 Phone: (704) 319-7020

www.faa.gov/about/office_org/field_offices/fsdo/clt/

Specific Program Requirements:

- Students will be required to purchase and wear uniforms while attending class. First year students will wear blue shirts (captain shirt for Career Pilot students and button down "oxford" shirt for Aviation Management students) and navy blue pants. Second year students will wear white shirts (captain shirt for Career Pilot students and button down "oxford" shirt for Aviation Management students) and navy blue pants. Both Career Pilot and Aviation Management uniforms also include a black leather belt and black leather shoes. Uniforms include the A-B Tech Aviation logo and must be purchased at Read's Uniforms in Asheville, NC. Students must purchase at least one (1) complete uniform appropriate to their year and pathway. Students are encouraged to purchase more than one uniform. Uniforms vary in price from approximately \$150 (Aviation Management uniform) to \$225 (Career Pilot uniform). Additional uniforms can be purchased at a discounted cost.
- 2. For Career Pilot students, the cost of flight training is a separate cost. The cost is estimated to be \$9,481 for the instrument rating (AER 161), and \$25,200 for the commercial pilot certificate (AER 171). The FAA private pilot certificate (license) is a pre-admission requirement for enrollment into the Career Pilot Technology degree pathway. The cost of flight training for the private pilot certificate is estimated to be \$8,607. These cost estimates reflect the FAA's minimum required flight hours. Many flight students will require training beyond the minimum flight hours and will incur greater costs.
- 3. Career Pilot students must obtain an FAA 2nd class airman medical certificate via passing a flight physical conducted by aviation medical examiner (AME). A listing of local AMEs can be found at https://www.faa.gov/pilots/amelocator/. The flight physical cost is approximately \$100.
- The FAA private pilot certificate is a pre-admission requirement for enrollment into the Career Pilot degree pathway. Students seeking the Career Pilot option must complete their private pilot flight training and possess a valid FAA private pilot certificate prior to being enrolled into this pathway. Students aspiring to enter the Career Pilot pathway can still enter the aviation program as Aviation Management students initially. Students in this scenario can, and should, still perform regular flight lessons to progress through flight training for the private pilot certificate. Once the private pilot certificate is obtained, the student should present the FAA certificate to A-B Tech. The student will then receive credit via licensure for the course, AER 151 Flight - Private Pilot and will qualify to enroll in the Career Pilot degree pathway.

- 5. Flight students in the Career Pilot degree pathway taking the flight training courses (AER 161 Flight Instrument Pilot and AER 171 Flight Commercial Pilot) should plan to complete three flight lessons each week when possible in order to complete the courses within the prescribed time frame (one semester for AER 161 and two semesters for AER 171). AER 161 requires a minimum of 35 flight hours and AER 171 requires a minimum of 120 flight hours. Many students require training beyond these minimums. As such, it is important to fly as often as possible each week and throughout the semester. Students enrolled in AER 161 and/or AER 171 at A-B Tech will complete all required flight training at WNC Aviation.
- 5. Students who enroll in the Career Pilot degree pathway who already have some or all of FAA pilot credentials (e.g., the private pilot certificate, instrument rating, commercial pilot certificate) included in the program may receive credit via licensure for the appropriate flight courses (AER 151 Flight Private Pilot, AER 161 Flight Instrument Pilot, or AER 171 Flight Commercial Pilot).

Aviation Management and Career Pilot Technology - Aviation Management (A60180AM)

Courses requiring a grade of "C" or better: ACA, AER

| First Semester (Fall) | | Credits |
|-----------------------|-----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| AER-110 | Air Navigation | 3 |
| AER-113 | History of Aviation | 2 |
| AER-150 | Private Pilot Flight Theory | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| Second Sem | ester (Spring) | |
| AER-111 | Aviation Meteorology | 3 |
| AER-160 | Instrument Flight Theory | 3 |
| COM-231 | Public Speaking | 3 |
| PHY-110 | Conceptual Physics | 3 |
| PHY-110A | Conceptual Physics Lab | 1 |
| Third Semes | ter (Summer) | |
| AER-114 | Aviation Management | 3 |
| AER-215 | Flight Safety | 3 |
| AER-218 | Human Factors in Aviation | 2 |
| Fourth Seme | ster (Fall) | |
| AER-112 | Aviation Laws and FARs | 2 |
| AER-170 | Commercial Flight Theory | 3 |
| AER-216 | Engines & Systems | 3 |
| CIS-110 | Introduction to Computers | 3 |
| PSY-150 | General Psychology | 3 |
| BUS-110 | Introduction to Business | 3 |

| Fifth Semester (Spring) | | |
|-------------------------|--------------------------|----|
| AER-210 | Flight Dynamics | 3 |
| AER-211 | Air Traffic Control | 2 |
| AER-217 | Air Transportation | 3 |
| HUM-115 | Critical Thinking | 3 |
| BUS-137 | Principles of Management | 3 |
| Total Credit | Hours Required | 67 |

Aviation Management & Career Pilot Technology - Career Pilot (A60180CP)

| Courses requiring a grade of "C" or better: ACA, AER | | |
|--|-----------------------------|---------|
| Preadmission Requirements | | Credits |
| AER-151 | Flight - Private Pilot * | 1 |
| First Semest | ter (Fall) | |
| ACA-115 | Success & Study Skills | 1 |
| AER-110 | Air Navigation | 3 |
| AER-113 | History of Aviation | 2 |
| AER-150 | Private Pilot Flight Theory | 3 |
| ENG-111 | Expository Writing | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| Second Sem | nester (Spring) | |
| AER-111 | Aviation Meteorology | 3 |
| AER-160 | Instrument Flight Theory | 3 |
| COM-231 | Public Speaking | 3 |
| PHY-110 | Conceptual Physics | 3 |
| PHY-110A | Conceptual Physics Lab | 1 |
| AER-161 | Flight-Instrument Pilot | 2 |
| Third Semes | eter (Summer) | |
| AER-114 | Aviation Management | 3 |
| AER-215 | Flight Safety | 3 |
| AER-218 | Human Factors in Aviation | 2 |
| Fourth Seme | ester (Fall) | |
| AER-112 | Aviation Laws and FARs | 2 |
| AER-170 | Commercial Flight Theory | 3 |
| AER-216 | Engines & Systems | 3 |
| CIS-110 | Introduction to Computers | 3 |
| PSY-150 | General Psychology | 3 |
| Fifth Semest | ter (Spring) | |
| AER-210 | Flight Dynamics | 3 |
| AER-211 | Air Traffic Control | 2 |
| AER-217 | Air Transportation | 3 |
| HUM-115 | Critical Thinking | 3 |
| AER-171 | Flight-Commercial Pilot | 3 |
| Total Credit | Hours Required | 67 |

Students aspiring to enter the Career Pilot pathway can still enter the Aviation program as Aviation Management students initially. Once the Private Pilot certificate (license) is obtained, the student may switch into the Career Pilot pathway.

*Note, A-B Tech does not offer AER 151 Flight - Private Pilot as part of the Career Pilot pathway. To earn your private pilot certificate (license), you can complete your training at our flight school provider, WNC Aviation, at any other FAA-certified flight school, or with any FAA-certified flight instructor. Once you obtain your private pilot certificate, you will receive credit via licensure for the AER 151

Aviation - Private Pilot Certificate (C60180C1)

The Private Pilot certificate is designed for non-career track students to earn their Private Pilot certification without entering the degree program. Courses taken within this certification are also stackable within the degree program.

Courses requiring a grade of "C" or better: AER

| First Semester (Fall) | | Credits |
|--------------------------|--------------------------|---------|
| AER-110 | Air Navigation | 3 |
| AER-150 | Private Pilot Flt Theory | 3 |
| | | |
| Second Semester (Spring) | | |
| AER-112 | Aviation Laws and FARs | 2 |
| AER-151 | Flight — Private Pilot* | 1 |
| AER-215 | Flight Safety | 3 |
| Total Credit | Hours Required | 12 |

Aviation - Instrument Rating Certificate (C60180C2)

The Instrument Rating certificate is designed for non-career track students to earn their Private Pilot certification while adding on the Instrument Rating without entering the degree program. Courses taken within this certification are also stackable within the degree program.

Courses requiring a grade of "C" or better: AER

| First Semester (Spring) | | Credits |
|-------------------------|----------------------------|---------|
| AER-111 | Aviation Meteorology | 3 |
| AER-112 | Aviation Laws and FARs | 2 |
| AER-151 | Flight - Private Pilot * | 1 |
| AER-160 | Instrument Flight Theory | 3 |
| AER-161 | Flight — Instrument Rating | 2 |
| AER- 215 | Flight Safety | 3 |
| Total Credit | Hours Required | 14 |

*Note, A-B Tech does not offer AER 151 Flight - Private Pilot as part of the above certificate pathways. To earn your private pilot certificate (license), you can complete your training at our flight school provider, WNC Aviation, at any other FAA-certified flight school, or with any FAA-certified flight instructor. Once you obtain your private pilot certificate, you will receive credit via licensure for the AER 151 course.

Baking and Pastry Arts

This curriculum is designed to provide students with the skills and knowledge required for employment in the baking/pastry industry, including restaurants, hotels, independent bakeries/pastry shops, wholesale/ retail markets, and high-volume bakeries, and/or further academic studies.

Students will be provided theoretical knowledge/ practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Course work includes specialty/ artisanal breads, desserts/pastries, decorative work, high-volume production and food marketing.

Graduates should qualify for entry-level positions, such as pastry/bakery assistant, area pastry chef and assistant pastry chef. American Culinary Federation certification may be available to graduates.

The Baking and Pastry Arts program is accredited by:

American Culinary Federation Education Foundation Accrediting Commission (ACFEF)

180 Center Place Way St. Augustine, FL 32095

Phone: (904) 824-4468 or (800) 624-9458

www.acfchefs.org/ACF/Education/Accreditation/ACF/Education/Accreditation/

Baking and Pastry Arts Associate in Applied Science Degree (A55130)

Courses requiring a grade of "C" or better: ACA, BPA, CUL. HRM and WBL

| First Semester (Fall) | | Credits |
|-----------------------|-----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CUL-110 | Sanitation & Safety | 2 |
| CUL-142 | Fundamentals of Food | 5 |
| CUL-160 | Baking I | 3 |
| MAT-110 | Math Measurement & Literacy | 3 |

Second Semester (Spring)

| BPA-120 | Petit Fours & Pastries | 3 |
|---------|---------------------------|---|
| BPA-130 | European Cakes and Tortes | 3 |
| BPA-150 | Artisan & Specialty Bread | 4 |
| ENG-111 | Writing and Inquiry | 3 |
| HRM-245 | Human Resource Mgmt-Hosp | 3 |
| | | |

Third Semester (Summer)

| CUL-150 | Food Science | 2 |
|---------|---------------------------|---|
| CUL-112 | Nutrition for Foodservice | 3 |
| WBL-112 | Work-Based Learning I | 2 |

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| Fourth Semester (Fall) | | | |
|------------------------|---------------------------|----|--|
| BPA-210 | Cake Design & Decorating | 3 | |
| BPA-240 | Plated Desserts | 3 | |
| BPA-250 | Dessert/Bread Production | 5 | |
| COM-231 | Public Speaking | 3 | |
| HUM-115 | Critical Thinking | 3 | |
| | | | |
| Fifth Semester | Fifth Semester (Spring) | | |
| BPA-220 | Confection Artistry | 4 | |
| BPA-230 | Chocolate Artistry | 3 | |
| BPA-260 | Pastry & Baking Marketing | 3 | |
| HRM-220 | Cost Control-Food & Bev | 3 | |
| PSY-150 | General Psychology | 3 | |
| Total Credit Ho | urs Required | 70 | |

Baking and Pastry Arts Certificate (C55130L3)

This curriculum is designed to introduce students to the Baking and Pastry Arts industry, preparing them for entry level positions in commercial bake shops or pastry kitchens. Courses include Sanitation & Safety, Baking I, Baking II, European Cakes and Tortes and Petit Fours & Pastries. Upon completion students should qualify for employment as pastry cook, bakers assistant or assistant pastry chef in food production settings.

Courses requiring a grade of "C" or better: CUL, BPA

| First Semester (Fall) | | Credits |
|-----------------------|---------------------------|---------|
| CUL-110 | Sanitation & Safety | 2 |
| CUL-150 | Food Science | 2 |
| CUL-160 | Baking I | 3 |
| Second Semes | ter (Spring) | |
| BPA-120 | Petit Fours & Pastries | 3 |
| BPA-130 | European Cakes and Tortes | 3 |
| BPA-150 | Artisan & Specialty Bread | 4 |
| Total Credit Ho | urs Required | 17 |

Brewing, Distillation and Fermentation

This curriculum is designed to prepare individuals for various careers in the brewing, distillation and fermentation industry. Classroom instruction, practical laboratory applications of brewing, distillation and fermentation principles and practices are included in the program of study.

Course work in brewing, distillation and fermentation includes production, operations, safety and sanitation and associated process technologies. Related course work is offered in fermentation production, safety and sanitation, applied craft beverage microbiology, agriculture, marketing, management, equipment, packaging and maintenance

Graduates should qualify for employment opportunities in the brewing, distillation and fermentation industry. Students may be eligible to sit for the professional Institute of Brewing and Distilling (IBD) certification exams which correspond to the program of study.

The Brewing, Distillation and Fermentation program prepares individuals to apply technical knowledge and skills to brew, distill and ferment various products, including beverages. Includes instruction in production of fermented products, cultivating, marketing, management, legal issues, inspection, maintenance, service and repair of equipment, facility operations, packaging, and sanitation.

Specific Program Requirements

- 1. General college admissions requirements
- Brewing, Distillation and Fermentation is a capped program due to a limited amount of classroom and lab availability. This program has a limited selection process. See the Business & Hospitality Education section on the Competitive and Limited Programs page of the A-B Tech website. www. abtech.edu/admissions/selective-and-limitedprograms. Requirements do include but are not limited to:
 - Documentation of successful completion of High School Chemistry or CHM 092.
 - b. Demonstrate college level placement in English and math as outlined in selection criteria.
 - c. NCCCS requires that all students must be 21 years of age or older by the start of classes.
 - d. Student applicants must be able to work in a physically demanding environment including but not limited to standing in a hot and wet work area for extending lengths of time; climbing stairs; repeatedly lifting equipment and product weighing up to 55 lbs., and safely maneuvering by hand equipment that weighs up to 170lbs.
 - e. Brewing and Distillation facilities may require a criminal background check and/or drug testing prior to employment or co-op. In addition, national and/or state regulations may prohibit employment or co-op opportunities based on criminal records.

Brewing, Distillation and Fermentation Associate in Applied Science Degree (A15250)

Pathway: Brewing Production, Marketing and Management

Courses requiring a grade of "C" or better: BDF, CHM, HRM, SST, WBL

| First Semester (Fall) | | Credits |
|-----------------------|-----------------------------|---------|
| BDF-111 | BDF Safety & Sanitation | 2 |
| BDF-114 | Craft Beer Brewing | 2 |
| BDF-125 | Bev Tech & Calculations | 2 |
| BDF-220 | Applied Craft Bev Chemistry | 4 |
| ENG-111 | Writing and Inquiry | 3 |
| HRM-225 | Beverage Management | 3 |

| Second Sem | ester (Spring) | |
|----------------|--------------------------------|----|
| BDF-110 | Fermentation Production | 4 |
| BDF-115 | Applied Craft Bev Microbiology | 4 |
| BDF-180 | Sensory Evaluation | 3 |
| BDF-261 | Bev Marketing & Sales | 3 |
| HRM-135 | Facilities Management | 3 |
| Third Semes | ter (Summer) | |
| WBL-112 | Work-Based Learning I | 2 |
| Fourth Seme | ster (Fall) | |
| BDF-170 | Bev Tour & Tasting Mgmt | 3 |
| BDF-230 | Advanced Brewing | 3 |
| BDF-230A | Advanced Brewing Lab | 1 |
| BDF-250 | BDF Packaging & Materials | 3 |
| MAT-110 | Math Measurement & Literacy | 3 |
| SST-110 Intro | to Sustainability | 3 |
| Fifth Semest | er (Spring) | |
| BDF-175 | Distillation Operations | 4 |
| BDF-215 | Legal Issues-Fermentation | 3 |
| COM-231 | Public Speaking | 3 |
| ECO-151 | Survey of Economics | 3 |
| HRM-220 | Cost Control-Food & Bev | 3 |
| HUM-115 | Critical Thinking | 3 |
| Total Credit l | Hours Required | 70 |

Brewing Methods and Operations Diploma

This curriculum is designed to prepare individuals for careers in the brewing industry. Classroom instruction, practical laboratory applications, fermentation principles and practices are included in the program of study.

Course work includes production, operations, safety and sanitation and associated process technologies.

Related course work is offered in fermentation production and applied craft beverage microbiology and lab methods.

Graduates should qualify for employment opportunities in the brewing industry. Students may be eligible to sit for the professional Institute of Brewing and Distilling (IBD) certification exams which correspond to the program of study.

Specific Program Requirements

- 1. General college admissions requirements.
- 2. Brewing Methods and Operations is a capped program due to a limited amount of classroom and lab availability. See Selection Criteria and Procedures for Brewing, Distillation and Fermentation on the college admissions office web page for full details. Requirements do include but are not limited to:
 - a. Documentation of successful completion of High School Chemistry or CHM 092.
 - b. Demonstrate college level placement in English and math as outlined in selection criteria.
 - c. NCCCS requires that all students must be 21 years of age or older by the start of classes.
 - d. Student applicants must be able to work in a physically demanding environment including but not limited to standing in a hot and wet work area for extending lengths of time; climbing stairs; repeatedly lifting equipment and product weighing up to 55 lbs., and safely maneuvering by hand equipment that weighs up to 170 lbs.
 - e. Brewing facilities may require a criminal background check and/or drug testing prior to employment or co-op. In addition, national and/or state regulations may prohibit employment or co-op opportunities based on criminal records.

Brewing Methods and Operations Diploma (D15250L1)

Courses requiring a grade of "C" or better: ACA, BDF, CHM, HRM, WBL

| First Semester (| Credits | |
|------------------|-----------------------------|---|
| BDF-111 | BDF Safety & Sanitation | 2 |
| BDF-114 | Craft Beer Brewing | 2 |
| BDF-125 | Bev Tech & Calculations | 2 |
| BDF-220 | Applied Craft Bev Chemistry | 4 |
| HRM-225 | Beverage Management | 3 |
| MAT-110 | Math Measurement & Literacy | 3 |

Second Semester (Spring)

| BDF-110 | Fermentation Production | 4 |
|------------|--------------------------------|---|
| BDF-115 | Applied Craft Bev Microbiology | 4 |
| BDF-180 | Sensory Evaluation | 3 |
| BDF-261 | Bev Marketing & Sales | 3 |
| abtech.edu | | |

| Total (| Credit H | ours Required | 38 | |
|-------------------------|----------|-----------------------|----|--|
| WBL | 112 | Work-Based Learning I | 2 | |
| Third Semester (Summer) | | | | |
| HRM-1 | 135 | Facilities Management | 3 | |
| ENG-1 | 11 | Writing and Inquiry | 3 | |

Distillation Methods and Operations Diploma

This curriculum is designed to prepare individuals for careers in the distillation industry. Classroom instruction, practical laboratory applications distillation principles and practices are included in the program of study.

Course work includes production, operations, safety and sanitation and associated process technologies. Related course work is offered in fermentation production and applied craft beverage microbiology and lab methods.

Graduates should qualify for employment opportunities in the distillation industry. Students may be eligible to sit for the professional Institute of Brewing and Distilling (IBD) certification exams which correspond to the program of study.

Specific Program Requirements

- 1. General college admissions requirements.
- Distillation Methods and Operations is a capped program due to a limited amount of classroom and lab availability. See Selection Criteria and Procedures for Brewing, Distillation and Fermentation on the college admissions office web page for full details. Requirements do include but are not limited to:
 - Documentation of successful completion of High School Chemistry or CHM 092.
 - b. Demonstrate college level placement in English and math as outlined in selection criteria.
 - c. NCCCS requires that all students must be 21 years of age or older by the start of classes.
 - d. Student applicants must be able to work in a physically demanding environment including but not limited to standing in a hot and wet work area for extending lengths of time; climbing stairs; repeatedly lifting equipment and product weighing up to 55 lbs., and safely maneuvering by hand equipment that weighs up to 170 lbs.
 - e. Distillation facilities may require a criminal background check and/or drug testing prior to employment or co-op. In addition, national and/or state regulations may prohibit employment or co-op opportunities based on criminal records.

Distillation Methods and Operations Diploma (D15250L2)

Courses requiring a grade of "C" or better: ACA, BDF, CHM, WBL

First Semester (Fall) Credits
BDF-111 BDF Safety & Sanitation 2

| Total Credit | Hours Required | 39 |
|---------------------|--------------------------------|----|
| WBL 112 | Work-Based Learning I | 2 |
| Third Semes | ster (Summer) | |
| COM-231 | Public Speaking | 3 |
| BDF-215 | Legal Issues-Fermentation | 3 |
| BDF-180 | Sensory Evaluation | 3 |
| BDF-175 | Distillation Operations | 4 |
| BDF-115 | Applied Craft Bev Microbiology | 4 |
| BDF-110 | Fermentation Production | 4 |
| Second Sen | nester (Spring) | |
| | , | |
| MAT-110 | Math Measurement & Literacy | 3 |
| BDF-220 | Applied Craft Bev Chemistry | 4 |
| BDF-150 | Craft Bev Lab Methods | 3 |
| BDF-125 | Bev Tech & Calculations | 2 |
| BDF-117 | Distillation Methods | 2 |

Craft Beverage Lab Certificate

The Craft Beverage Lab certificate provides beverage industry employees the concepts and skills to upgrade or cross-train in their careers in the beverage industry. In addition, successful completion of the certificate will allow previously trained lab technicians in other fields such as medical to learn new concepts and skills and to transfer knowledge to the beverage industry.

Specific Program Requirements

- 1. General college admissions requirements
- 2. Brewing, Distillation and Fermentation is a capped program due to a limited amount of classroom and lab availability. This program has a limited selection process. See the Business & Hospitality Education section on the Competitive and Limited Programs page of the A-B Tech website. www. abtech.edu/admissions/selective-and-limited-programs. Requirements do include but are not limited to:
 - a. Documentation of successful completion of High School Chemistry or CHM 092.
 - b. Demonstrate college level placement in English and math as outlined in selection criteria.
 - c. NCCCS requires that all students must be 21 years of age or older by the start of classes.
 - d. Student applicants must be able to work in a physically demanding environment including but not limited to standing in a hot and wet work area for extending lengths of time; climbing stairs; repeatedly lifting equipment and product weighing up to 55 lbs., and safely maneuvering by hand equipment that weighs up to 170 lbs.
 - e. Brewing and Distillation facilities may require a criminal background check and/or drug testing prior to employment or co-op. In addition, national and/or state regulations may prohibit employment or co-op opportunities based on criminal records.

| Courses requiring | a grade | of "C" of | or better: | BDF |
|-------------------|---------|-----------|------------|-----|
| Courses requiring | a graac | 0, 0 | n botton. | יטט |

| First Semes | Credits | |
|---------------------|--------------------------------|---|
| BDF-114 | Craft Beer Brewing | 2 |
| BDF-150 | Craft Bev Lab Methods | 3 |
| BDF-220 | Applied Craft Bev Chemistry | 4 |
| Second Sen | nester (Spring) | |
| BDF-110 | Fermentation Production | 4 |
| BDF-115 | Applied Craft Bev Microbiology | 4 |
| Total Credit | 17 | |

Business Administration

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Business Administration: General Business Administration Associate in Applied Science (A25120BA)

Courses requiring a grade of "C" or better: ACA, ACC, BUS, CIS, ECO, MKT, and WEB

| First Semester | Credits | |
|----------------|------------------------------|---|
| ACA-115 | Success & Study Skills | 1 |
| BUS-110 | Introduction to Business | 3 |
| CIS-110 | Introduction to Computers | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| | | |
| Second Semes | ter (Spring) | |
| ACC-120 | Prin of Financial Accounting | 4 |
| BUS-270 | Professional Development | 3 |
| ECO-251 | Prin of Microeconomics | 3 |
| MKT-120 | Principles of Marketing | 3 |

150

| Third Semester | (Summer) | |
|-----------------|-------------------------------|----|
| BUS-115 | Business Law I | 3 |
| BUS-137 | Principles of Management | 3 |
| ECO-252 | Principles of Macroeconomics | 3 |
| HUM-115 | Critical Thinking | 3 |
| | | |
| Fourth Semeste | er (Fall) | |
| ACC-121 | Prin of Managerial Accounting | 4 |
| BUS-153 | Human Resource Management | 3 |
| BUS-125 | Personal Finance | 3 |
| COM-231 | Public Speaking | 3 |
| | | |
| Fifth Semester | (Spring) | |
| BUS-147 | Business Insurance | 3 |
| BUS-239 | Bus Applications Seminar | 2 |
| CTS-130 | Spreadsheet | 3 |
| MKT-223 | Customer Service | 3 |
| WEB-140 | Web Development Tools | 3 |
| Total Credit Ho | urs Required | 65 |

Business Administration Diploma (D25120)

The Business Administration Diploma is designed as a supplemental program to provide a basic understanding of business principles and practices for students enrolled in or completing a non-business related program. The diploma is not intended to be a stand-alone credential leading to employment in a business field.

| First Semes | Credits | |
|-------------|------------------------------|---|
| ACA-115 | Success & Study Skills | 1 |
| ACC-120 | Prin of Financial Accounting | 4 |
| BUS-110 | Introduction to Business | 3 |
| BUS-115 | Business Law I | 3 |
| BUS-137 | Principles of Management | 3 |
| | | |

Second Semester (Spring)

| BUS-153 | Human Resources Management | 3 |
|---------|----------------------------|---|
| BUS-125 | Personal Finance | 3 |
| BUS-270 | Professional Development | 3 |
| CIS-110 | Introduction to Computers | 3 |
| ECO-251 | Prin of Microeconomics | 3 |
| ENG-111 | Writing and Inquiry | 3 |

| Third Semester (Summer) | | |
|-------------------------|-------------------------|---|
| MAT-143 | Quantitative Literacy | 3 |
| MKT-120 | Principles of Marketing | 3 |

3

41

Total Credit Hours Required

Customer Service

Cosmetology

MKT-223

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and related businesses.

The Mountain Tech Spa, an on-campus spa facility, provides practical experience for Cosmetology students under the direction of College faculty.

The Cosmetology program is approved by the: **North Carolina Board of Cosmetic Art Examiners** 1207 Front Street, Suite 110

Raleigh, NC 27609 Phone: (919) 733-4117 Fax: (919) 733-4127

www.nccosmeticarts.com

Specific Program Requirements

- 1. General college admission requirements.
- Submission of proper documentation is required by the Spa Therapies and Operations Department and the NC Board of Cosmetic Art Examiners prior to class start. Required documentation includes Hepatitis B record, current government-issued photo ID showing date of birth, and social security card.
- Completion of required Hepatitis B vaccine. First dose to be completed by the first day of class. Second Hepatitis B vaccine to be completed at least one month after the first dose. Third dose must be completed six months after the first.
- To earn hours, Cosmetology students must be physically present in the laboratory. When leaving a laboratory, students must clock out.
- 5. Students must be able to differentiate between colors with or without reasonable accommoda-

- tions and be comfortable working directly with chemicals found in products used in the cosmetology industry.
- 6. Students should be able to use cosmetology equipment such as clippers and shears and be able to stand for prolonged periods with or without reasonable accommodations.

Cosmetology Associate in Applied Science (A55140)

Courses requiring a grade of "C" or better: ACA, BUS, CIS, and COS

| First Semester | Credits | |
|-----------------|-----------------------------|---|
| ACA-115 | Success & Study Skills | 1 |
| CIS-113 | Computer Basics | 1 |
| COS-111 | Cosmetology Concepts I | 4 |
| COS-112 | Salon I | 8 |
| Second Semes | eter (Spring) | |
| COS-113 | Cosmetology Concepts II | 4 |
| COS-114 | Salon II | 8 |
| ENG-111 | Writing and Inquiry | 3 |
| Third Semeste | r (Summer) | |
| COM-120 | Intro Interpersonal Com | 3 |
| COS-115 | Cosmetology Concepts III | 4 |
| COS-116 | Salon III | 4 |
| Fourth Semest | er (Fall) | |
| COS-117 | Cosmetology Concepts IV | 2 |
| COS-118 | Salon IV | 7 |
| MAT-110 | Math Measurement & Literacy | 3 |
| Fifth Semester | (Spring) | |
| BUS-139 | Entrepreneurship I | 3 |
| BUS-270 | Professional Development | 3 |
| COS-260 | Design Applications | 2 |
| PSY-150 | General Psychology | 3 |
| HUM-115 | Critical Thinking | 3 |
| Total Credit Ho | 66 | |

Cosmetology - Diploma (D55140)

COS-113

COS-114

Courses requiring a grade of "C" or better: ACA and cos

| First Semester (Fall) | | Credits |
|--------------------------|------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| COS-111 | Cosmetology Concepts I | 4 |
| COS-112 | Salon I | 8 |
| Second Semester (Spring) | | |

4

8

Cosmetology Concepts II

Salon II

| Third Semester (Summer) | | | |
|-----------------------------|--------------------------|---|--|
| COM-120 | Intro Interpersonal Com | 3 | |
| COS-115 | Cosmetology Concepts III | 4 | |
| COS-116 | Salon III | 4 | |
| | | | |
| Fourth Semeste | r (Fall) | | |
| COS-117 | Cosmetology Concepts IV | 2 | |
| COS-118 | Salon IV | 7 | |
| PSY-150 | General Psychology | 3 | |
| Total Credit Hours Required | | | |
| Cosmetology Instructor | | | |

The Cosmetology Instructor curriculum provides a course of study for learning the skills needed to teach the theory and practice of cosmetology as required by the North Carolina Board of Cosmetic Arts.

Course work includes requirements for becoming an instructor, introduction to teaching theory, methods and aids, practice teaching, and development of evaluation instruments.

Graduates of the program may be employed as cosmetology instructors in public or private education and business.

The Cosmetology Instructor program is approved by

North Carolina Board of Cosmetic Art Examiners

1207 Front Street, Suite 110 Raleigh, NC 27609

Phone: (919) 733-4117 Fax: (919) 733-4127

www.nccosmeticarts.com

Specific Program Requirements

- General college admission requirements.
- Submission of proper documentation is required by the Spa Therapies and Operations Department and the NC Board of Cosmetic Art Examiners prior to class start. Required documentation includes Hepatitis B record, current government-issued photo ID showing date of birth, and social security card.
- Completion of required Hepatitis B vaccine. First dose to be completed by the first day of class. Second Hepatitis B vaccine to be completed at least one month after the first dose. Third dose must be completed six months after the first.
- To earn hours, Cosmetology Instructor students must be physically present in the laboratory. When leaving a laboratory, students must clock out.
- Students must be able to differentiate between colors with or without reasonable accommodations and be comfortable working directly with chemicals found in products used in the cosmetology industry.

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- Students should be able to use cosmetology equipment such as clippers and shears and be able to stand for prolonged periods with or without reasonable accommodations.
- Applicants of the Cosmetology Instructor program should hold a current NC Board of Cosmetic Arts Examiners Cosmetologist license.

Cosmetology Instructor – Certificate (C55160)

Courses requiring a grade of "C" or better: COS

| First Semester (Fall) | | Credits |
|--------------------------|-------------------------|---------|
| COS-271 | Instructor Concepts I | 5 |
| COS-272 | Instructor Practicum I | 7 |
| | | |
| Second Semester (Spring) | | |
| COS-273 | Instructor Concepts II | 5 |
| COS-274 | Instructor Practicum II | 7 |
| Total Credi | it Hours Required | 24 |

Culinary Arts

This curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/ practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/ safety, baking, garde manger, culinary fundamentals/ production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager.

The Culinary Arts program is accredited by:

American Culinary Federation Education Foundation Accrediting Commission (ACFEF)

180 Center Place Way St. Augustine, FL 32095

Phone: (904) 824-4468 or (800) 624-9458

www.acfchefs.org/ACF/Education/Accreditation/ACF/Education/Accreditation/

Culinary Arts Associate in Applied Science Degree (A55150)

Courses requiring a grade of "C" or better: ACA, CUL, HRM, and WBL

| First Semest | er (Fall) | Credits |
|----------------|-----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CUL-110 | Sanitation & Safety | 2 |
| CUL-140 | Culinary Skills I | 5 |
| CUL-140A | Culinary Skills I Lab | 1 |
| CUL-150 | Food Science | 2 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-110 | Math Measurement & Literacy | 3 |
| Second Sem | ester (Spring) | |
| CUL-160 | Baking I | 3 |
| CUL-170 | Garde Manger I | 3 |
| CUL-240 | Culinary Skills II | 5 |
| CUL-240A | Culinary Skills II Lab | 1 |
| HRM-245 | Human Resource Mgmt - Hosp | 3 |
| Third Semes | ter (Summer) | |
| WBL 112 | Work-Based Learning I | 2 |
| Fourth Seme | ster (Fall) | |
| CUL-112 | Nutrition for Food Service | 3 |
| CUL-230 | Global Cuisines | 5 |
| CUL-260 | Baking II | 3 |
| CUL-270 | Garde Manger II | 3 |
| HRM-225 | Beverage Management | 3 |
| Fifth Semest | er (Spring) | |
| COM-231 | Public Speaking | 3 |
| CUL-135 | Food & Beverage Service | 2 |
| CUL-135A | Food & Beverage Service Lab | 1 |
| CUL-250 | Classical Cuisine | 5 |
| HRM-220 | Cost Control - Food & Bev | 3 |
| I II IN A 11 E | Critical Thinking | 3 |
| HUM-115 | Gittical Tilliking | J |

Culinary Studies Certificate (C55150L1)

This certificate offers students an introductory opportunity to foodservice industry and culinary operations. The certificate is designed to enhance the

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professional knowledge of individuals

The Culinary Studies Certificate course work can be of particular value to:

- Individuals already employed in the fields of hospitality or foodservice who desire to increase their knowledge of culinary techniques within a professional kitchen.
- Students who are currently completing or who have previously completed the requirements of the ACEF (American Culinary Federation Education Foundation) Apprenticeship or USDL Journeyworker Apprenticeship.

Students interested in completing the Culinary Studies Certificate have the following options.

- The Culinary Studies Certificate course work can be applied toward the course requirements for the College's associate degree in Culinary Arts. Students can graduate with both the certificate and the A.A.S.
- Students can earn the certificate and then complete the requirements of the Culinary Arts A.A.S degree at a later time.
- Students may choose to pursue additional credentials offered by the College, including certificates, diplomas and associate degrees offered within the Hospitality Education Department.

Specific Requirements

- General college admission requirements must be met
- 2. At least 50% of the credit hours toward this certificate must be earned at the College.
- Students must pass all courses required to earn the certificate with a grade of "C" or higher.
- Students must satisfy any course prerequisite requirements and pass such courses with a grade of "C" or higher.
- 5. Students pursuing the certificate should be aware that employers in Hospitality or Foodservice can require prospective volunteers, interns, and employees to pass criminal background, drug screen, and citizenship verification checks before they are allowed to work at an organization.

Course Requirements

CUL-110 Sanitation & Safety 2

| CUL-140 | Culinary Skills I | 5 |
|----------------|-----------------------|----|
| CUL-140A | Culinary Skills I Lab | 1 |
| CUL-150 | Food Science | 2 |
| CUL-170 | Garde Manger I | 3 |
| CUL-240 | Culinary Skills II | 5 |
| Total Credit I | Hours Required | 18 |

Digital Media Technology

The Digital Media Technology program prepares students for entry-level jobs in the digital design and multimedia industry. Students learn to synthesize multimedia, hypertext, computer programming, information architecture, and client/server technologies using both Internet and non-network-based media.

Students develop skills in communication, critical thinking, and problem solving as well as interface design, multimedia formats, application programming, data architecture, and client/server technologies. The program develops technical skills through practical applications that employ current and emerging standards and technologies.

Graduates should qualify for employment as web designers, graphic artists/designers, multimedia specialists, web developers, web content specialists, media specialists, information specialists, digital media specialists, animation specialists, interface designers, and many new jobs yet to be defined in this expanding field.

Specific Requirements

- General college admission requirements must be met.
- Transfer credit will not be accepted for DME-260, DME-270, and DME-285.

Digital Media Technology Associate in Applied Science Degree (A25210)

Courses requiring a grade of "C" or better: ACA, ART, CIS, DME, FVP, WBL and WEB

| First Semester (Fall) | | Credits |
|--------------------------|--------------------------------|---------|
| ACA-122 | College Transfer Success | 1 |
| CIS-115 | Intro to Programming and Logic | 3 |
| DME-110 | Intro to Digital Media | 3 |
| DME-115 | Graphic Design Tools | 3 |
| WEB-115 | Web Markup and Scripting | 3 |
| Second Semester (Spring) | | |
| DME-120 | Intro to Multimedia Appl | 3 |
| DME-140 | Intro to Audio/Video Media | 3 |
| DME-215 | Adv Graphic Design Tools | 3 |

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| WEB-210 Web Design 3 WEB-213 Internet Mkt & Analytics 3 Third Semester (Summer) ART-111 Art Appreciation 3 ENG-111 Writing and Inquiry 3 MAT-110 Mathematical Measurement 3 Fourth Semester (Fall) DME-130 Digital Animation I 3 DME-210 User Interface Design 3 DME-220 Interactive Multimedia Prog 3 DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 Total Credit Hours Required 67 | 104 | | |
|---|--------------|-----------------------------|----|
| Third Semester (Summer) ART-111 | WEB-210 | Web Design | 3 |
| ART-111 Art Appreciation 3 ENG-111 Writing and Inquiry 3 MAT-110 Mathematical Measurement 3 Fourth Semester (Fall) DME-130 Digital Animation I 3 DME-210 User Interface Design 3 DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | WEB-213 | Internet Mkt & Analytics | 3 |
| ENG-111 Writing and Inquiry 3 MAT-110 Mathematical Measurement 3 Fourth Semester (Fall) DME-130 Digital Animation I 3 DME-210 User Interface Design 3 DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | Third Seme | ster (Summer) | |
| MAT-110 Mathematical Measurement 3 Fourth Semester (Fall) DME-130 Digital Animation I 3 DME-210 User Interface Design 3 DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | ART-111 | Art Appreciation | 3 |
| Fourth Semester (Fall) DME-130 Digital Animation I 3 DME-210 User Interface Design 3 DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | ENG-111 | Writing and Inquiry | 3 |
| DME-130 Digital Animation I 3 DME-210 User Interface Design 3 DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | MAT-110 | Mathematical Measurement | 3 |
| DME-210 User Interface Design 3 DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | Fourth Sem | ester (Fall) | |
| DME-220 Interactive Multimedia Prog 3 DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | DME-130 | Digital Animation I | 3 |
| DME-240 Media Compression 3 ENG-114 Prof Research & Reporting 3 Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | DME-210 | User Interface Design | 3 |
| Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | DME-220 | Interactive Multimedia Prog | 3 |
| Fifth Semester (Spring) DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | DME-240 | Media Compression | 3 |
| DME-260 Emerging Tech Digital Media 3 DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | ENG-114 | Prof Research & Reporting | 3 |
| DME-270 Prof Pract Digital Media 3 DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | Fifth Semes | ster (Spring) | |
| DME-285 Systems Project 3 PSY-150 General Psychology 3 Major Elective 3 | DME-260 | Emerging Tech Digital Media | 3 |
| PSY-150 General Psychology 3 Major Elective 3 | DME-270 | Prof Pract Digital Media | 3 |
| Major Elective 3 | DME-285 | Systems Project | 3 |
| | PSY-150 | General Psychology | 3 |
| Total Credit Hours Required 67 | | Major Elective | 3 |
| | Total Credit | Hours Required | 67 |

Major Electives: ART 266, FVP 250, WBL 212/WBL 215, WEB 125, WEB 182

Digital Media Technology Digital Video Certificate (C25210L1)

The Digital Video certificate provides training in multiple aspects of digital video and audio technologies, including creating graphics for video, camera and lighting techniques, capturing video, nonlinear editing, and compression of audio/video media.

This certificate is designed for students who have experience with computers and want to improve digital audio and video skills. If a student does not have the prior proficiency, other course work might be required to meet course pre-requisites.

Courses requiring a grade of "C" or better: DME, FVP

| First Semester (Fall) | | Credits |
|-----------------------|------------------------|---------|
| DME-110 | Intro to Digital Media | 3 |
| DME-115 | Graphic Design Tools | 3 |

| Second Semester (Spring) | | | |
|--------------------------|----------------------------|----|--|
| DME-140 | Intro to Audio/Video Media | 3 | |
| FVP-250 | Production Specialties I | 3 | |
| | | | |
| Fourth Seme | ester (Fall) | | |
| DME-240 | Media Compression | 3 | |
| Total Credit | Hours Required | 15 | |

Digital Media Technology Design Level I Certificate (C25210L4)

The Level I Certificate provides training with a foundation in digital media technologies, project planning, software, graphic design, and programming skills. Students will complete print and screen-based projects using digital media tools and techniques.

This certificate is designed for students who have experience with computers and want to improve digital graphics and design skills.

Courses requiring a grade of "C" or better: DME, WEB

| First Semester (Fall) | | Credits |
|--------------------------|--------------------------|---------|
| DME-110 | Intro to Digital Media | 3 |
| DME-115 | Graphic Design Tools | 3 |
| WEB-115 | Web Markup and Scripting | 3 |
| Second Semester (Spring) | | |
| DME-215 | Adv Graphic Design Tools | 3 |
| DME-120 | Intro to Multimedia Appl | 3 |
| WEB-210 | Web Design | 3 |
| Total Credit I | Hours Required | 18 |

Digital Media Technology Design Level II Certificate (C25210L5)

The Level 2 Certificate provides advanced training using industry standard design tools, project planning / documentation, graphic design, and portfolio preparation. Students will complete advanced print and screen-based projects demonstrating use of planning, design, programming and interactivity.

This certificate is designed for students who have successfully completed the Level 1 Certificate and want to create a portfolio of work demonstrating advanced design and programming techniques.

Courses requiring a grade of "C" or better: DME

| First Semester (Spring) | | Credits |
|-------------------------|----------------------------|---------|
| DME-140 | Intro to Audio/Video Media | 3 |
| | | |
| Second Sen | nester (Fall) | |
| DME-130 | Digital Animation I | 3 |
| | | |

| DME-210 | User Interface Design | 3 |
|-----------------------------|----------------------------------|----|
| DME-220 | Interact Multi-Media Programming | 3 |
| | | |
| Third Semester (Spring) | | |
| DME-260 | Emerging Tech Digital Media | 3 |
| DME-270 | Prof Pract in Digital Media | 3 |
| Total Credit Hours Required | | 18 |

Esthetics Technology

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the art of skin care. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional Esthetics Technology, business/human relations, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and cosmetic/skin care salons, as a platform artist, and in related businesses.

The Mountain Tech Spa, an on-campus spa facility, provides practical experience for Esthetics students under the direction of College faculty.

The Esthetics Technology program is approved by the: **North Carolina Board of Cosmetic Art Examiners**

1207 Front Street, Suite 110 Raleigh, NC 27609 Phone: (919) 733-4117 Fax: (919) 733-4127

www.nccosmeticarts.com

Specific Program Requirements

- 1. General college admission requirements.
- Submission of proper documentation is required by the Spa Therapies and Operations Department and the NC Board of Cosmetic Art Examiners prior to class start. Required documentation includes Hepatitis B record, current government-issued photo ID showing date of birth, and social security card.
- 3. Completion of required Hepatitis B vaccine. First dose to be completed by the first day of class. Second Hepatitis B vaccine to be completed at least one month after the first dose. Third dose must be completed six months after the first.

- Esthetics Technology students must clock out when leaving the laboratory. To earn hours, students must be physically present in the laboratory.
- Students should be physically able to use esthetics ics technology equipment and safely use esthetics technology products with or without reasonable accommodations and be comfortable working directly with chemicals found in products used in the esthetics industry.

Esthetics Technology Certificate (C55230)

Courses requiring a grade of "C" or better: COS

| First Semester (Fall) | | Credits |
|-----------------------------|-----------------------|---------|
| COS-119 | Esthetics Concepts I | 2 |
| COS-120 | Esthetics Salon I | 6 |
| Second Ser | mester (Spring) | |
| COS-125 | Esthetics Concepts II | 2 |
| COS-126 | Esthetics Salon II | 6 |
| Total Credit Hours Required | | 16 |

Hospitality Management

This curriculum prepares individuals to understand and apply the administrative and practical skills needed for supervisory and managerial positions in hotels, motels, resorts, inns, restaurants, institutions, and clubs.

Course work includes guest services, leadership, management, restaurant operations, lodging operations, marketing, sanitation, food preparation, food and beverage management and other critical areas.

Graduates should qualify for management or entry-level supervisory positions in food and lodging operations, including restaurants, foodservice, beverage service, catering, front office, reservations and housekeeping. Opportunities are also available in product services, and technology support and sales.

Mountain Tech Lodge

An on-campus lodging facility, the Mountain Tech Lodge, is operated and maintained by the Hospitality Management students, and provides practical experience under the direction of College faculty.

Hospitality Management Associate in Applied Science Degree (A25110)

Courses requiring a grade of "C" or better: ACA, ACC, CUL, HRM and WBL

| First Semest | ter (Fall) | Credits |
|---------------------|------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CUL-110 | Sanitation & Safety | 2 |
| CUL-142 | Fundamentals of Food | 5 |
| HRM-110 | Intro to Hosp & Tourism | 3 |
| HRM-124 | Guest Service Management | 3 |
| MAT-110 | Math Measurement & Literacy | 3 |
| Second Sen | nester (Spring) | |
| COM-231 | Public Speaking | 3 |
| CUL-135 | Food & Beverage Service | 2 |
| CUL-135A | Food & Beverage Serv Lab | 1 |
| ENG-111 | Writing and Inquiry | 3 |
| HRM-120 | Front Office Procedures | 3 |
| HRM-220 | Cost Control-Food & Bev | 3 |
| Third Semes | ster (Summer) | |
| WBL-112 | Work-Based Learning I | 2 |
| Fourth Seme | ester (Fall) | |
| CIS-113 | Computer Basics | 1 |
| HRM-215 | Restaurant Management | 3 |
| HRM-215A | Restaurant Management Lab | 1 |
| HRM-225 | Beverage Management | 3 |
| HRM-240 | Marketing for Hospitality | 3 |
| HRM-245 | Human Resource Mgmt-Hosp | 3 |
| PSY-150 | General Psychology | 3 |
| Fifth Semest | ter (Spring) | |
| ACC-120 | Prin of Financial Accounting | 4 |
| HRM-180 | The Business of Tourism | 3 |
| HRM-140 | Legal Issues-Hospitality | 3 |
| HRM-280 | Mgmt Problems - Hospitality | 3 |
| HUM-115 | Critical Thinking | 3 |
| Total Credit | Hours Required | 67 |

Hospitality Management Certificate (C25110L3)

The Hospitality Management certificate provides line employees with the concepts and skills to upgrade or cross-train in their career in the hotel and restaurant management industry. In addition, successful completion of CUL 110, HRM 225 and HRM 245 leads to nationally recognized certifications from the National Restaurant Association and the American Hotel and Lodging Association.

Courses requiring a grade of "C" or better: CUL and HRM

| First Semester (Fall) | | Credits |
|-----------------------|---------------------|---------|
| CUL-110 | Sanitation & Safety | 2 |

| HRM-225 | Beverage Management | 3 |
|----------------|---------------------------|----|
| HRM-240 | Marketing for Hospitality | 3 |
| Second Seme | ester (Spring) | |
| HRM-140 | Legal Issues-Hospitality | 3 |
| HRM-220 | Cost Control-Food & Bev | 3 |
| HRM-245 | Human Resource Mgmt-Hosp | 3 |
| Total Credit H | lours Required | 17 |

Information Technology: Information Systems

The Information Systems curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible curriculum that can be customized to meet community information system needs.

Course work will develop a student's ability to communicate complex technical issues related to computer hardware, software, and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security, and technical support.

Graduates should qualify for employment in entrylevel positions with businesses, educational systems, and governmental agencies that rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

Specific Requirements

- General college admission requirements must be met.
- Transfer credit will not be accepted for CTS-135, or CTS-289.

Information Technology: Information Systems Associate in Applied Science Degree (A25590IS)

Courses requiring a grade of "C" or better: ACA, CIS, CSC, CTI, CTS, DBA, GIS, NET, NOS, WBL, and WEB

| First Semester (Fall) | | Credits |
|-----------------------|---------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CIS-110 | Introduction to Computers | 3 |
| CTI-110 | Web, Pgm, & Db Foundation | 3 |
| CTI-120 | Network & Sec Foundation | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| NOS-110 | Operating System Concepts | 3 |
| | | |
| Second Sen | nester (Spring) | |
| CIS-115 | Intro to Prog & Logic | 3 |

| CTS-120 | Hardware/Software Support | 3 |
|---------------|----------------------------|---|
| CTS-135 | Integrated Software Intro | 4 |
| DBA-110 | Database Concepts | 3 |
| NOS-120 | Linux/UNIX Single User | 3 |
| Third Semeste | er (Summer) | |
| CTS-115 | Info Sys Business Concepts | 3 |
| DBA-120 | Database Programming I | 3 |
| MAT-110 | Mathematical Measurement | 3 |
| Fourth Semest | ter (Fall) | |
| CTS-217 | Computer Training/Support | 3 |
| DBA-210 | Database Administration | 3 |
| GIS-111 | Introduction to GIS | 3 |
| NOS-130 | Windows Single User | 3 |
| WEB-140 | Web Development Tools | 3 |
| Fifth Semeste | r (Spring) | |
| ART-111 | Art Appreciation | 3 |
| COM-231 | Public Speaking | 3 |
| CTS-289 | System Support Project | 3 |
| PSY-150 | General Psychology | 3 |
| | Major Elective | 3 |

Major Electives: CTS 220, NOS 220, NOS 230, WEB 213, WBL 212/ WBL 215

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See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: Computer Fundamentals Certificate (C25590I1)

Total Credit Hours Required

The Computer Basics certificate provides students with an essential set of skills to prepare for the workplace. Students will learn to: (1) use a popular software application package, (2) create and design databases, (3) design web sites and (4) perform operating system, networking, and security basics. This certificate is designed for students who want to improve their skills for the workplace.

Courses requiring a grade of "C" or better: CIS, CTI, DBA, and WEB

| First Semester (Fall) | | Credits |
|-----------------------|---------------------------|---------|
| CIS-110 | Introduction to Computers | 3 |
| CTI-110 | Web, Pgm, & Db Foundation | 3 |
| CTI-120 | Network & Sec Foundation | 3 |
| Second Ser | nester (Spring) | |
| CIS-115 | Intro to Prog & Logic | 3 |
| DBA-110 | Database Concepts | 3 |
| WEB-140 | Web Development Tools | 3 |
| Total Credit | Hours Required | 18 |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: GIS Fundamentals Certificate (C25590I2)

The GIS Fundamentals Certificate provides a curriculum based on a solid foundation in GIS concepts. Students enrolled in this certificate will learn the different forms of spatial data and their essential properties; ways spatial data can be used to investigate complex problems; principles and methods for collecting spatial data; principles of map design and effective cartographic communication; designing, creating and manipulating GIS databases and operating GPS technology.

This certificate is designed for students who have experience with computers and want to improve geospatial technology skills. If a student does not have prior computer proficiency, other coursework might be required to meet course pre-requisites.

Courses requiring a grade of "C" or better: CTI, GIS

| First Semester (Fall) | | Credits | |
|-----------------------------|----------------------------|---------|--|
| CTI-110 | Web, Pgm, & Db Foundation | 3 | |
| GIS-111 | Introduction to GIS | 3 | |
| Second Sem | ester (Spring) | | |
| GIS-215 | GIS Data Models | 3 | |
| Third Semester (Fall) | | | |
| GIS-121 | Georeferencing and Mapping | 3 | |
| Total Credit Hours Required | | 12 | |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: PC Installation and Maintenance Certificate (C25590I3)

Students learn how to install, optimize, upgrade, and troubleshoot personal computer hardware and software. They gain both theoretical and handson experience using a variety of current hardware and software technologies. Topics such as testing electrical components, using diagnostics utilities, and user PC support interactions will be covered.

Preparation for the A+ Certification examination is an integral objective of this certificate program. Success as a PC technician requires essential knowledge and skills that may be tested by the internationallyrecognized A+ Certification exam.

Courses requiring a grade of "C" or better: CIS, CTS, NOS

| First Semester (Fall) | Credits |
|--|---------|
| CIC 110 Introduction to Computare | 3 |
| CIS-110 Introduction to Computers | |
| NOS-110 Operating System Concepts | 3 |
| Second Semester (Spring) | |
| CTS-120 Hardware/Software Support | 3 |
| NOS-120 Linux/UNIX Single User | 3 |
| NOS-130 Windows Single User | |
| Third Semester (Fall) | |
| CTS-220 Advanced Hardware/Software Support | 3 |
| Total Credit Hours Required | |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: Network Management

The Network Management curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians.

Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

Specific Requirements

- General college admission requirements must be met.
- 2. Transfer credit will not be accepted for NET-289.

Information Technology: Network Management Associate in Applied Science Degree (A25590NM)

Courses requiring a grade of "C" or better: ACA, CTI, CTS, ELC, NET, NOS, and SEC

| First Semester (Fall) | | Credits |
|-----------------------|---------------------------|---------|
| ACA-115 | Success and Study Skills | 1 |
| CTI-110 | Web, Pgm, & Db Foundation | 3 |
| CTI-120 | Network & Sec Foundation | 3 |
| ELC-111 | Intro to Electricity | 3 |
| ENG-111 abtech.edu | Writing and Inquiry | 3 |

| NOS-110 | Operating Systems Concepts | 3 |
|-----------------------------|----------------------------|----|
| Cd C | or a stary (Consissor) | |
| | nester (Spring) | |
| MAT-110 | Mathematical Measurement | 3 |
| NET-125 | Introduction to Networks | 3 |
| NOS-120 | Linux/UNIX Single User | 3 |
| NOS-130 | Windows Single User | 3 |
| SEC-110 | Security Concepts | 3 |
| Third Seme | ster (Summer) | |
| CTS-115 | Info Sys Business Concepts | 3 |
| NET-126 | Routing Basics | 3 |
| NOS-220 | Linux/UNIX Admin I | 3 |
| Fourth Sem | ester (Fall) | |
| COM-231 | Public Speaking | 3 |
| CTI-240 | Virtualization Admin I | 3 |
| NET-225 | Routing & Switching I | 3 |
| NOS-230 | Windows Administration I | 3 |
| SEC-160 | Security Administration I | 3 |
| Fifth Semes | ter (Spring) | |
| ART-111 | Art Appreciation | 3 |
| NET-175 | Wireless Technology | 3 |
| NET-289 | Networking Project | 3 |
| PSY-150 | General Psychology | 3 |
| SEC-210 | Intrusion Detection | 3 |
| Total Credit Hours Required | | 70 |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: Network Systems Administration Certificate (C25590N1)

This certificate will prepare individuals to perform tasks commonly associated with systems administrators. Students will learn how to monitor, manage, and troubleshoot computer systems and servers. Upon successful completion of this certificate program students will be able to install, manage, and configure Microsoft Windows™ and Linux operating systems.

Courses requiring a grade of "C" or better: NET, NOS

| First Semester (Fall) | | Credits |
|-----------------------|---------------------------|---------|
| NOS-110 | Operating System Concepts | 3 |
| Second Ser | nester (Spring) | |
| NOS-120 | Linux/UNIX Single User | 3 |
| NET-125 | Introduction to Networks | 3 |
| NOS-130 | Windows Single User | 3 |
| Third Seme | ster (Summer) | |
| NOS-220 | Linux/UNIX Admin I | 3 |

Fourth Semester (Fall)

| NOS-230 | Windows Administration I | 10 |
|----------------|--------------------------|--------|
| Total Credit H | ours Required | 18 |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: CCNA Preparation Certificate (C25590N2)

This certificate is designed to help prepare students for the Cisco Certified Network Associate (CCNA) examination. Topics include network topologies and design, router configuration and protocols, switching theory, virtual LANS and threaded case studies. Upon successful completion of the four course sequence, students will have acquired the knowledge necessary to perform entry level design, construction, and maintenance of network infrastructures. This certificate will help prepare students for the Cisco Certified Network Associate certification exam.

Courses requiring a grade of "C" or better: NET

| First Semester (Spring) | | Credits | | |
|-------------------------|--------------------------|---------|--|--|
| NET-125 | Introduction to Networks | 3 | | |
| Second Seme | ester (Summer) | | | |
| NET-126 | Routing Basics | 3 | | |
| Third Semest | Third Semester (Fall) | | | |
| NET-225 | Routing & Switching I | 3 | | |
| Fourth Semes | ter (Spring) | | | |
| NET-175 | Wireless Technology | 3 | | |
| Total Credit H | ours Required | 12 | | |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: Software and Web Development

The Software and Web Development curriculum prepares graduates for careers in the information technology arena using computers and mobile devices to disseminate and collect information via the Internet.

Course work in this program covers the terminology and use of computers, Internet-ready devices, servers, databases, programming languages, as well as Internet applications, site development and design. Studies will provide opportunity for students to learn related industry standards.

Graduates should qualify for career opportunities as designers, administrators, or developers in the areas

of Internet and mobile applications, websites, web services, and related areas of Internet technologies.

Specific Requirements

- General college admission requirements must be met.
- Transfer credit will not be accepted for DBA-120, WEB-115, WEB-182, WEB-210, WEB-250, and WEB-289.

Information Technology: Software and Web Development Associate in Applied Science Degree (A25590WB)

Courses requiring a grade of "C" or better: ACA, CIS, CSC, CTI, CTS, DBA, DME, GIS, WBL, WEB

| First Semes | ter (Fall) | Credits |
|-------------|----------------------------|---------|
| ACA-115 | Success and Study Skills | 1 |
| CIS-115 | Intro to Prog & Logic | 3 |
| CTI-110 | Web, Pgm, & Db Foundation | 3 |
| CTI-110 | Network & Sec Foundation | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| WEB-115 | Web Markup and Scripting | 3 |
| WLD-113 | web Markup and Scripting | J |
| Second Ser | mester (Spring) | |
| DBA-110 | Database Concepts | 3 |
| MAT-110 | Mathematical Measurement | 3 |
| WEB-111 | Intro to Web Graphics | 3 |
| WEB-182 | PHP Programming | 3 |
| WEB-210 | Web Design | 3 |
| Third Seme | ster (Summer) | |
| COM-231 | Public Speaking | 3 |
| CTS-115 | Info Sys Business Concepts | 3 |
| DBA-120 | Database Programming I | 3 |
| Fourth Sem | ester (Fall) | |
| ART-111 | Art Appreciation | 3 |
| WEB-125 | Mobile Web Design | 3 |
| WEB-215 | Adv Markup and Scripting | 3 |
| WEB-225 | Content Management Sys | 3 |
| WEB-250 | Database Driven Websites | 3 |
| Fifth Semes | ster (Spring) | |
| PSY-150 | General Psychology | 3 |
| WEB-213 | Internet Mkt & Analytics | 3 |
| WEB-285 | Emerging Web Technologies | 3 |
| | | |

Asheville-Buncombe Technical Community College

160

| Total Credit Hours Required | | 70 |
|-----------------------------|-------------------------------|----|
| | Major Elective | 3 |
| WEB-289 | Internet Technologies Project | 3 |

Major Electives: CSC-118, CSC-134, CSC-151, CSC-218, DBA-210, DME-115, GIS-111, GIS-215, WBL-212/WBL-215

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: Web Developer Level I Certificate (C25590W2)

The Web Developer Level I Certificate provides introductory courses related to programming, database and Internet technologies. Coursework includes client- and server-side scripting, and Web/database programming.

Courses requiring a grade of C or better: DBA, WEB, CIS

Credits

First Semester (Fall)

| Total Credit | Hours Required | 18 |
|---------------------|--------------------------|----|
| WEB-210 | Web Design | 3 |
| WEB-182 | PHP Programming | 3 |
| WEB-111 | Intro to Web Graphics | 3 |
| DBA-110 | Database Concepts | 3 |
| Second Sen | nester (Spring) | |
| WEB-115 | Web Markup and Scripting | 3 |
| CIS-115 | Intro to Prog & Logic | 3 |
| | | |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: Web Developer Level II Certificate (C25590W3)

The Web Developer Level II Certificate provides courses related to interactive Internet technologies. Coursework includes client- and server-side scripting, Web/database programming, and advanced programming electives. Students must complete the Web Developer Level I Certificate to meet the prerequisite skill set.

Courses requiring a grade of C or better: CSC, DBA, WEB

| First Semester (Summer) | | Credits |
|-------------------------|------------------------|---------|
| DBA-120 | Database Programming I | 3 |
| Second Ser | nester (Fall) | |
| WEB-125 | Mobile Web Design | 3 |

| Major Elective Total Credit Hours Required | | ა 10 |
|--|--------------------------|---------|
| | Major Floativo | 2 |
| WEB-213 | Internet Mkt & Analytics | 3 |
| Third Seme | ster (Spring) | |
| WEB-250 | Database Driven Websites | 3 |
| WEB-215 | Adv Markup and Scripting | 3 |

Major Electives: CSC-134, CSC-151, WEB-120, WEB-225

Information Technology: Database Management Certificate (C25590W4)

Students will learn how to design, manipulate and update databases using a variety of database programs. Upon completion of the certificate students should be able to write programs which create, update and produce databases, tables and reports representative of industry standards.

This certificate is designed for students who have experience with computers and want to improve database skills. If a student does not have the prior proficiency, other course work might be required to meet course prerequisites.

Courses requiring a grade of "C" or better: CIS, DBA, WEB

| First Semester (Fall) | | Credits |
|-----------------------|--------------------------|---------|
| CIS-115 | Intro to Prog & Logic | 3 |
| WEB-115 | Web Markup and Scripting | 3 |
| Second Se | mester (Spring) | |
| DBA-110 | Database Concepts | 3 |
| WEB-182 | PHP Programming | 3 |
| Third Seme | ester (Summer) | |
| DBA-120 | Database Programming I | 3 |
| Fourth Sem | ester (Fall) | |
| DBA-210 | Database Administration | 3 |
| Total Credi | t Hours Required | 18 |

Information Technology: Systems Security

The Systems Security curriculum covers a broad expanse of technology concepts. This curriculum provides individuals with the skills required to implement effective and comprehensive information security controls.

Course work includes networking technologies, operating systems administration, information policy, intrusion detection, security administration, and industry best practices to protect data

communications.

Graduates should be prepared for employment as security administrators. Additionally, they will acquire the skills that allow them to pursue security certifications.

Specific Requirements

- General college admission requirements must be met.
- Transfer credit will not be accepted for SEC-285.

Information Technology: Systems Security Associate in Applied Science Degree (A25590SS)

Courses requiring a grade of "C" or better: ACA, CTI, CTS, ELS, NET, NOS and SEC

| First Semes | ter (Fall) | Credits |
|---------------------|-------------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CTI-110 | Web, Pgm, & Db Foundation | 3 |
| CTI-120 | Network & Sec Foundation | 3 |
| ELC-111 | Intro to Electricity | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| NOS-110 | Operating Systems Concepts | 3 |
| Second Ser | nester (Spring) | |
| MAT-110 | Mathematical Measurement | 3 |
| NET-125 | Introduction to Networks | 3 |
| NOS-120 | Linux/UNIX Single User | 3 |
| NOS-130 | Windows Single User | 3 |
| SEC-110 | Security Concepts | 3 |
| Third Seme | ster (Summer) | |
| ENG-114 | Professional Research and Reporting | 3 |
| CTS-115 | Info Sys Business Concepts | 3 |
| NET-126 | Routing Basics | 3 |
| Fourth Sem | ester (Fall) | |
| CTI-240 | Virtualization Admin I | 3 |
| NET-225 | Routing & Switching I | 3 |
| NOS-230 | Windows Administration I | 3 |
| PSY-150 | General Psychology | 3 |
| SEC-160 | Security Administration I | 3 |
| Fifth Semes | ter (Spring) | |
| ART-111 | Art Appreciation | 3 |
| NET-175 | Wireless Technology | 3 |
| SEC-210 | Intrusion Detection | 3 |
| SEC-260 | Security Admin II | 3 |
| SEC-285 | Systems Security Project | 3 |
| Total Credit | Hours Required | 70 |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Information Technology: Systems Security Certificate (C25590S2)

The Microsoft Certified Solutions Associate certificate will prepare individuals to monitor, manage and mitigate the common cyber security risks that business systems face today. It uses a comprehensive approach that includes rigorous training in process documentation, incident response planning and drills, and security assessments. The certificate centers on best-practice system administration principles guided by recognized standards such as ISO 27001. Upon successful completion of this certificate, individuals will be able to develop security plans, responses, and assessments in accordance with industry standards in preparation for the CompTIA Security+, and the SSCP IT Administration Exam. This will establish a pathway to pursue certifications such as SSCP, CCSP, HCISPP, and CISSP once as they gain work experience in the

Courses requiring a grade of "C" or better: CTI, NET, NOS, SEC

| NOS, SEC | | |
|-----------------------|----------------------------|---------|
| First Semester (Fall) | | Credits |
| CTI-120 | Network & Sec Foundation | 3 |
| NOS-110 | Operating Systems Concepts | 3 |
| Second Sen | nester (Spring) | |
| SEC-110 | Security Concepts | 3 |
| NET-125 | Introduction to Networks | 3 |
| Third Semes | ster (Fall) | |
| SEC-160 | Security Administration I | 3 |
| Fourth Seme | ester (Spring) | |
| SEC-260 | Security Admin II | 3 |
| Total Credit | Hours Required | 18 |

See page 166 for academic credit to be given for certifications in the Information Technology field.

Manicuring/Nail Technology

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

The Mountain Tech Spa, an on-campus spa facility, provides practical experience for Manicuring/Nail Technology students under the direction of College faculty.

The Manicuring/Nail Technology program is approved by the:

North Carolina Board of Cosmetic Art Examiners

1207 Front Street, Suite 110

Raleigh, NC 27609 Phone: (919) 733-4117 Fax: (919) 733-4127 www.nccosmeticarts.com

Specific Program Requirements

. General college admission requirements.

- Submission of proper documentation is required by the Spa Therapies and Operations Department and the NC Board of Cosmetic Art Examiners prior to class start. Required documentation includes Hepatitis B record, current government-issued photo ID showing date of birth, and social security card.
- Completion of required Hepatitis B vaccine. First dose to be completed by the first day of class. Second Hepatitis B vaccine to be completed at least one month after the first dose. Third dose must be completed six months after the first.
- Manicuring/Nail Technology students must clock out when leaving the laboratory. To earn hours, students must be physically present in the laboratory.
- 5. Students should be physically able to use manicuring/nail technology equipment and safely use manicuring/nail technology products with or without reasonable accommodations and be comfortable working directly with chemicals found in products used in the manicuring/nail technology industry.

Manicuring/Nail Technology Certificate (C55400)

Courses requiring a grade of "C" or better: BUS, CIS, and COS

| First Semester (Fall) | | Credits |
|--------------------------|----------------------------|---------|
| CIS-113 | Computer Basics | 1 |
| COS-121 | Manicure/Nail Technology I | 6 |
| | | |
| Second Semester (Spring) | | |
| BUS-139 | Entrepreneurship I | 3 |
| COS-222 | Manicure/Nail Tech. II | 6 |
| Total Credit | Hours Required | 16 |

Marketing and Retailing

Marketing and Retailing is a concentration under the curriculum title of Business Administration. This curriculum is designed to provide students with fundamental skills in marketing and retailing.

abtech.edu

Course work includes marketing, retailing, merchandising, selling, advertising, computer technology, and management.

Graduates should qualify for marketing positions within manufacturing, retailing, and service organizations.

Business Administration: Marketing and Retailing Associate in Applied Science Degree (A25120MK)

Courses requiring a grade of "C" or better: ACA, ACC, BUS, CIS, ECO and MKT

| First Semes | ter (Fall) | Credits |
|--------------|---------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| BUS-110 | Introduction to Business | 3 |
| CIS-110 | Introduction to Computers | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| Second Sen | nester (Spring) | |
| ACC-120 | Prin of Financial Accounting | 4 |
| MKT-120 | Principles of Marketing | 3 |
| MKT-121 | Retailing | 3 |
| MKT-122 | Visual Merchandising | 3 |
| MKT-221 | Consumer Behavior | 3 |
| Third Seme | ster (Summer) | |
| BUS-115 | Business Law I | 3 |
| BUS-137 | Principles of Management | 3 |
| ECO-251 | Prin of Microeconomics | 3 |
| HUM-115 | Critical Thinking | 3 |
| Fourth Semo | ester (Fall) | |
| ECO-252 | Prin of Macroeconomics | 3 |
| MKT-123 | Fundamentals of Selling | 3 |
| MKT-232 | Social Media Marketing | 4 |
| MKT-223 | Customer Service | 3 |
| Fifth Semes | ter (Spring) | |
| COM-231 | Public Speaking | 3 |
| MKT-220 | Advertising and Sales Promotion | 3 |
| MKT-225 | Marketing Research | 3 |
| MKT-227 | Marketing Applications | 3 |
| MKT-229 | Special Events Production | 2 |
| Total Credit | Hours Required | 68 |

Retail Marketing Certificate (C25120M1)

The Retail Marketing Certificate is designed to prepare students to be successful in a retail marketing environment. Students will learn the fundamentals of marketing goods and services. This certificate will provide students with the essential knowledge

Credits

of retailing, including effective operations, retail structure, non-store retailing, and upcoming trends. Students will learn how to design stimulating visual displays and the importance of visual merchandising. The uniqueness of consumer behavior will be explored with emphasis on the decision-making process.

Courses requiring a grade of "C" or better: BUS, MKT

| First Semes | ter (Fall) | Credits |
|---------------------|--------------------------|---------|
| BUS-110 | Introduction to Business | 3 |
| MKT-120 | Principles of Marketing | 3 |
| MKT-121 | Retailing | 3 |
| MKT-122 | Visual Merchandising | 3 |
| MKT-221 | Consumer Behavior | 3 |
| Total Credit | Hours Required | 15 |

Medical Office Administration

The Medical Office Administration curriculum prepares individuals for employment as medical administrative personnel in the areas of medical office, medical billing and coding, dental office, patient services, and medical documents.

Course work includes medical terminology, computer applications, medical office management, medical coding, medical insurance and billing, medical legal and ethical issues, oral and written communication, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of medical office positions in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other healthcare related organizations. Upon graduation, students may be eligible to sit for industry recognized certification exams.

Medical Office Administration Associate in Applied Science Degree (A25310)

Courses requiring a grade of "C" or better: ACA, ACC, CIS, and OST

| First Semeste | er (Fall) | Credits |
|---------------|-----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| MAT-110 | Math Measurement & Literacy | 3 |
| OST-131 | Keyboarding | 2 |
| OST-136 | Word Processing | 3 |
| OST-141 | Med Office Terms I | 3 |
| OST-164 | Office Editing | 3 |
| Second Semo | ester (Spring) | |
| BIO-163 | Basic Anatomy & Physiology | 5 |
| OST-134 | Text Entry & Formatting | 3 |
| OST-142 | Med Office Terms II | 3 |
| OST-148 | Med Ins & Billing | 3 |

Records Management

OST-184

3

| Third Semes | ster (Summer) | |
|---------------------|--------------------------------|------------|
| ENG-110 | Freshman Composition | 3 |
| OST-132 | Keyboard Skill Building | 2 |
| OST-149 | Medical Legal Issues | 3 |
| OST-243 | Med Office Simulation | 3 |
| OST-289 | Office Admin Capstone | 3 |
| | | |
| Fourth Seme | ester (Fall) | |
| ACC-120 | Prin of Financial Accounting | 4 |
| CIS-110 | Introduction to Computers | 3 |
| OST-137 | Office Applications I | 3 |
| OST-286 | Professional Development | 3 |
| HUM-115 | Critical Thinking | 3 |
| | | |
| Fifth Semes | ter (Spring) | |
| COM-231 | Public Speaking | 3 |
| OST-233 | Office Publications Design | 3 |
| PSY-150 | General Psychology | 3 |
| | Major Elective | 3 |
| Total Credit | Hours Required | 74 |
| NA . EL | DUID 440 OTO 400 ODA 400 OOT 4 | 00 00T 1F0 |

Major Electives: BUS-110, CTS-130, SPA-120, OST-122, OST-153, or OST-247/OST-248.

Medical Office Administration Diploma (D25310)

First Semester (Fall)

Courses requiring a grade of "C" or better: ACA, CIS and OST

Entrance requirements: Keyboarding placement test into OST 134 consisting of 25 gross words a minute (gwam) at 98% accuracy using the touch system and college English placement test.

| i ii at ociiiot | otti (i aii) | Orcuits |
|-----------------|----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| CIS-110 | Introduction to Computers | 3 |
| ENG-110 | Freshman Composition | 3 |
| OST-136 | Word Processing | 3 |
| OST-141 | Med Office Terms I | 3 |
| OST-164 | Office Editing | 3 |
| | | |
| Second Ser | mester (Spring) | |
| BIO-163 | Basic Anatomy & Physiology | 5 |
| OST-134 | Text Entry & Formatting | 3 |
| OST-142 | Med Office Terms II | 3 |
| OST-148 | Med Ins & Billing | 3 |
| OST-184 | Records Management | 3 |
| | Major Elective | 3 |
| | | |

| Third Semester (Summer) | | | |
|-------------------------|-------------------------|----|--|
| OST-132 | Keyboard Skill Building | 2 | |
| OST-149 | Medical Legal Issues | 3 | |
| OST-243 | Med Office Simulation | 3 | |
| OST-289 | Office Admin Capstone | 3 | |
| Total Credit H | ours Required | 47 | |

Major Electives: BUS-110, CTS-130, SPA-120, OST-122, OST-153, or OST-247/OST-248.

Medical Office Administration Medical Coding Certificate (C25310L1)

The Medical Coding Certificate program will prepare individuals for entry-level employment opportunities in the allied health specialty of medical coding. This is an introductory program that may, with experience and additional training, lead to national certification.

Courses requiring a grade of "C" or better: OST

| First Semeste | er (Fall) | Credits |
|-----------------------|------------------------------|---------|
| BIO-163 | Basic Anatomy and Physiology | 5 |
| OST-141 | Med Office Terms I | 3 |
| | | |
| Second Seme | ester (Spring) | |
| OST-142 | Med Office Terms II | 3 |
| Third Semest | er (Summer) | |
| OST-247 | Procedure Coding | 3 |
| OST-248 | Diagnostic Coding | 3 |
| Total Credit H | lours Required | 17 |

Office Administration

The Office Administration curriculum prepares individuals for employment as administrative office personnel who use skills in the areas of office management, office finance, legal office, virtual office, customer service, and office software.

Course work includes computer applications, oral and written communication, analysis and coordination of office tasks and procedures, records management, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of office positions in business, government, and industry. Upon graduation, students may be eligible to sit for industry recognized certification exams.

Office Administration: General Office Associate in Applied Science Degree (A25370G0)

Courses requiring a grade of "C" or better: ACA, ACC, CIS, CTS, DBA, OST and WEB

| First Semes | ter (Fall) | Credits |
|--------------|------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| ACC-120 | Prin of Financial Accounting | 4 |
| CIS-110 | Introduction to Computers | 3 |
| ENG-110 | Freshman Composition | 3 |
| OST-131 | Keyboarding | 2 |
| OST-286 | Professional Development | 3 |
| Second Ser | nester (Spring) | |
| CTS-130 | Spreadsheet | 3 |
| MAT-110 | Math Measurement & Literacy | 3 |
| OST-134 | Text Entry & Formatting | 3 |
| OST-136 | Word Processing | 3 |
| OST-164 | Office Editing | 3 |
| OST-184 | Records Management | 3 |
| Third Seme | ster (Summer) | |
| ACC-140 | Payroll Accounting | 2 |
| COM-231 | Public Speaking | 3 |
| OST-132 | Keyboard Skill Building | 2 |
| PSY-150 | General Psychology | 3 |
| Fourth Sem | ester (Fall) | |
| DBA-110 | Database Concepts | 3 |
| OST-137 | Office Applications I | 3 |
| WEB-140 | Web Development Tools | 3 |
| | Major Elective | 3 |
| Fifth Semes | ter (Spring) | |
| OST-233 | Office Publications Design | 3 |
| OST-289 | Office Admin Capstone | 3 |
| HUM-115 | Critical Thinking | 3 |
| <u></u> | Major Elective | 3 |
| Total Credit | Hours Required | 68 |

Major Electives: ACC-150, ACC-220, BUS-110, BUS-115, BUS-137, BUS-153, BUS-240, SPA-120

Office Administration Diploma (D25370)

Courses requiring a grade of "C" or better: ACA, ACC, CIS, CTS, OST, and WEB

| First Semester (Fall) | | Credits |
|-----------------------|------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| ACC-120 | Prin of Financial Accounting | 4 |
| CIS-110 | Introduction to Computers | 3 |
| ENG-110 | Freshman Composition | 3 |
| OST-131 | Keyboarding | 2 |
| OST-286 | Professional Development | 3 |

| Total Credit | t Hours Required | 44 |
|---------------------|-------------------------|----|
| | Major Elective | 3 |
| OST-289 | Office Admin Capstone | 3 |
| OST-132 | Keyboard Skill Building | 2 |
| COM-231 | Public Speaking | 3 |
| ACC-140 | Payroll Accounting | 2 |
| Third Seme | ster (Summer) | |
| OST-184 | Records Management | 3 |
| OST-164 | Office Editing | 3 |
| OST-136 | Word Processing | 3 |
| OST-134 | Text Entry & Formatting | 3 |
| | | |

3

Second Semester (Spring)

Spreadsheet

CTS-130

Major Electives: ACC-150, ACC-220, BUS-110, BUS-115, BUS-137, BUS-153, BUS-240, SPA-120

Office Administration – Office Management Certificate (C25370L2)

The Office Management Certificate will prepare individuals for entry-level office management positions in business, government, and industry.

Courses requiring a grade of "C" or better: ACC and OST

| First Semes | ster (Fall) | Credits |
|--------------------|------------------------------|---------|
| ACC-120 | Prin of Financial Accounting | 4 |
| Second Se | mester (Spring) | |
| OST-136 | Word Processing | 3 |
| OST-164 | Office Editing | 3 |
| OST-184 | Records Management | 3 |
| Third Seme | ester (Summer) | |
| OST-289 | Office Admin Capstone | 3 |
| Total Credi | t Hours Required | 16 |

Office Administration – Word Processing/ Desktop Publishing Certificate (C25370L1)

This certificate program provides essential training in word processing and desktop publishing. Students will learn state-of-the-art computer software that is used in offices and businesses today.

Courses requiring a grade of "C" or better: CIS and OST

| First Semeste | er (Fall) | Credits |
|----------------|----------------------------|---------|
| CISt110 | Introduction to Computers | 3 |
| OST-131 | Keyboarding | 2 |
| OST-136 | Word Processing | 3 |
| Second Seme | ester (Spring) | |
| OST-134 | Text Entry and Formatting | 3 |
| OST-164 | Office Editing | 3 |
| OST-233 | Office Publications Design | 3 |
| Total Credit H | lours Required | 17 |

Office Administration: Finance Associate in Applied Science Degree (A25370FI)

Office Finance (AAS degree) is a concentration area in the Office Administration program. Students develop skills in accounting and office finance, along with office procedures, office software applications, records management, office computations, keyboarding, editing and formatting, oral and written communication, critical thinking, team building and problem solving.

Graduates should qualify for employment opportunities in the financial areas of government agencies, real-estate offices, financial institutions, and small or large business.

Courses requiring a grade of "C" or better: ACA, ACC, CIS, CTS, DBA, OST and WEB

| First Semes | eter (Fall) | Credits |
|--------------|------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| ENG-110 | Freshman Composition | 3 |
| MAT-110 | Math Measurement & Literacy | 3 |
| OST-131 | Keyboarding | 2 |
| OST-137 | Office Applications I | 3 |
| Second Ser | nester (Spring) | |
| ACC-120 | Prin of Financial Accounting | 4 |
| CTS-130 | Spreadsheet | 3 |
| OST-134 | Text Entry & Formatting | 3 |
| OST-136 | Word Processing | 3 |
| OST-164 | Text Editing Applications | 3 |
| Third Seme | ster (Summer) | |
| ACC-140 | Payroll Accounting | 2 |
| COM-231 | Public Speaking | 3 |
| OST-132 | Keyboard Skill Building | 2 |
| OST-289 | Office Admin Capstone | 3 |
| PSY-150 | General Psychology | 3 |
| Fourth Sem | ester (Fall) | |
| OST-122 | Office Computations | 3 |
| OST-286 | Professional Development | 3 |
| HUM-115 | Critical Thinking | 3 |
| | Major Elective | 3 |
| Fifth Semes | ster (Spring) | |
| OST-153 | Office Finance Solutions | 3 |
| OST-184 | Records Management | 3 |
| OST-233 | Office Publications Design | 3 |
| | Major Elective | 3 |
| Total Credit | Hours Required | 65 |

Major Electives: ACC-150, ACC-220, BUS-110, BUS-115, BUS-137, BUS-240, SPA-120

Catalog 2020-2021

In the Computer Technologies Department, academic credit is available for the following certifications as long as the certification is current at the time academic credit is awarded. If a student has a certification (not on the list), please check with the department chair for possible course credit.

| CERTIFICATIONS | Credit Courses | Credit Hours |
|---|----------------|--------------|
| MOS Word, Excel, Access, PowerPoint (2016 or later version) | CIS 110 | 3 |
| (MCSA) 98-366: Networking Fundamentals and 98-367: Security Fundamentals OR Network+ and Security+ | CTI 120 | 3 |
| A+ (220-901) | CTS 120 | 3 |
| A+ (220-902) | CTS 120 | 3 |
| | CTS 220 | 3 |
| Interconnecting Cisco Networking Devices Part 1 (ICND1) | NET 125 | 3 |
| | NET 126 | 3 |
| Interconnecting Cisco Networking Devices Part 2 (ICND2) | NET 225 | 3 |
| | NET 226 | 3 |
| Cisco Certified Network Associate (CCNA) | NET 125 | 3 |
| | NET 126 | 3 |
| | NET 225 | 3 |
| | NET 226 | 3 |
| Linux+ | NOS 120 | 3 |
| Red Hat Certified Technician | NOS 120 | 3 |
| | NOS 220 | 3 |
| Red Hat Certified Engineer | NOS 120 | 3 |
| | NOS 220 | 3 |
| (any MCSA from the following list) 70-697: Configuring Windows Devices or 70-698: Installing and Configuring Windows 10 | NOS 130 | 3 |
| (any MCSA from the following list) 70-740: Installation, Storage, and Compute with Windows Server 2016 70-741: Networking with Windows Server 2016 70-742: Identity with Windows Server 2016 70-743: Upgrading Your Skills to MCSA: Windows Server 2016 | NOS 230 | 3 |
| Security+ | SEC 110 | 3 |

Emergency Services

The Division of Emergency Services includes the following professional programs: Basic Law Enforcement Training, Criminal Justice Technology, Emergency Medical Science and Public Safety Administration. The Division offers training in both curriculum and continuing education. It offers a variety of academic credentials, including associate degrees, certificates, and diplomas. Many of the Division's curriculum courses are designed to meet licensure/certification requirements necessary for employment.

In addition to classroom and laboratory instruction, each program provides experiential learning through field/clinical experiences. These field/clinical experiences occur at emergency services sites in the community, including medical, law enforcement, and fire and rescue settings.

Applicants should become familiar with the selection criteria and application deadlines for the specific program. Persons interested in a public service career are advised that professional licensure, certification, employment, or admission to clinical/work experience sites may be denied to anyone who has been convicted of a felony or other crime involving moral turpitude.

A.A.S. Degrees

Criminal Justice Technology Emergency Medical Science Public Safety Administration

Certificates

Basic Law Enforcement Training Basic Emergency Medical Science

Public Safety Administration: Corrections Management Public Safety Administration: EMS Management Public Safety Administration: Fire Service Management

Public Satety Administration: Fire Safety

Public Safety Administration: Law Enforcement Management Public Safety Administration: Public Safety Management

Basic Law Enforcement Training

Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers with state, county, or municipal governments, or with private enterprise.

This program utilizes State commission-mandated topics and methods of instruction. General subjects include, but are not limited to, criminal, juvenile, civil, traffic, and alcoholic beverage laws; investigative, patrol, custody, and court procedures; emergency responses; and ethics and community relations.

Students must successfully complete and pass all units of study which include the certification examination by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission to receive a certificate.

The BLET program is accredited by the:

North Carolina Criminal Justice Education and Training Standards Commission

PO Drawer 149 Raleigh, NC 27602 Phone: (919) 661-5980 www.ncdoj.gov

Specific Program Requirements

- 1. General college admission requirements.
- Meet all state and federal employment eligibility requirements.
- Meet all minimum entry requirements as established in 12 NCAC 09B .0203.
- 4. Possess and maintain a valid driver's license
- Submit to the School Director a TABE, Accu-Placer or other accepted reading comprehension test indicating a minimum 10th grade reading level.
- Obtain sponsorship through a certified law enforcement agency. Sponsorship must be maintained throughout the training program.
- Submit to the School Director a completed BLET Enrollment packet.
 - a. Obtain a packet at https://www.abtech.edu/ criminal-justice/basic-law-enforcementtraining-overview or contact the BLET school Director at 828-782-2841.
 - Applicants are admitted on a first-come, firstserved basis with preference being afforded to applicants already employed by a law enforcement agency.
 - c. Packets must be submitted at least two weeks prior to the scheduled start date.

Basic Law Enforcement Training Certificate Program (C55120)

| Major Requirements | | Credits |
|--------------------|----------------------------|---------|
| CJC-100 | Basic Law Enforcement BLET | 20 |
| Total Cred | 20 | |

Criminal Justice Technology

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections and security services. The criminal justice system's role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

Criminal Justice Technology Associate in Applied Science Degree (A55180)

Courses requiring a grade of "C" or better: ACA, CJC

| First Semes | Credits | |
|-------------|----------------------------|---|
| ACA-115 | Success & Study Skills | 1 |
| CIS-110 | Introduction to Computers | 3 |
| CJC-111 | Intro to Criminal Justice | 3 |
| CJC-113 | Juvenile Justice | 3 |
| CJC-231 | Constitutional Law | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| | | |
| Second Ser | mester | |
| CJC-112 | Criminology | 3 |
| CJC-131 | Criminal Law | 3 |
| HUM-115 | Critical Thinking | 3 |
| PSY-150 | General Psychology | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| CJC-121 | Law Enforcement Operations | 3 |

| Third Semester | | | |
|----------------|------------------------------|---|--|
| CJC-221 | Investigative Principles | 4 | |
| ENG-114 | Prof Research & Reporting | 3 | |
| SOC-225 | Social Diversity | 3 | |
| CJC-170 | Critical Incident Management | 3 | |
| CJC-132 | Court Procedure & Evidence | 3 | |
| | | | |

| Fourth Semester | | | |
|---------------------|-----------------------------|----|--|
| CJC-122 | Community Policing | 3 | |
| CJC-141 | Corrections | 3 | |
| CJC-212 | Ethics & Comm Relations | 3 | |
| CJC-222 | Criminalistics | 3 | |
| CJC-255 | Issues in Crim Justice Appl | 3 | |
| SPA-120 | Spanish for the Workplace | 3 | |
| Total Credit | Hours Required | 68 | |

Students who have successfully completed a curriculum offering of Basic Law Enforcement Training within 10 years of their application to the Criminal Justice Technology Program will receive credit for CJC 121, CJC 131, CJC 132, CJC 221, and CJC 231.

Students who have successfully completed the WNC Law Enforcement Leadership Academy will receive credit for CJC-111, CJC-221, CJC-231, and CJC-255.

Emergency Medical Science

The Emergency Medical Science curriculum provides individuals with the knowledge, skills and attributes to provide advanced emergency medical care as a paramedic for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce.

Students will gain complex knowledge, competency, and experience while employing evidence based practice under medical oversight, and serve as a link from the scene into the healthcare system.

Graduates of this program may be eligible to take state and/or national certification examinations.

Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational and government agencies.

"To prepare competent entry-level Emergency Medical Technician-Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains".

Specific Requirements

- 1. General college admission requirements:
 - a. Complete application for admission.
 - b. Successfully complete College Placement Test.
 - c. Official transcript of any prior college credit on file with admissions office.
- Must be 18 years of age by the end of the first semester of the program.
- 3. Current N.C. driver's license.
- Acceptable reports of medical examinations and immunizations.

Criminal background checks will be required prior to admission to clinical sites.

Emergency Medical Science Associate in Applied Science Degree (A45340)

Courses requiring a grade of "C" or better: ACA, BIO, EMS, MED

| First S | emest | er (Fall) | Credits |
|---------|--------|---------------------------------|---------|
| ACA-1 | 15 | Success & Study Skills | 1 |
| EMS-1 | 10 | EMT | 9 |
| EMS-1 | 50 | Emergency Vehicles and EMS Comm | 2 |
| ENG-1 | 11 | Writing and Inquiry | 3 |
| MAT-1 | 10 | Mathematical Measurement | 3 |
| MED-1 | 20 | Survey of Med Terminology | 2 |
| Secon | d Sem | ester (Spring) | |
| BIO-16 | 8 | Anatomy and Physiology I | 4 |
| EMS-1 | 22 | EMS Clinical Practicum I | 1 |
| EMS-1 | 30 | Pharmacology | 4 |
| EMS-1 | 31 | Advanced Airway Management | 2 |
| EMS-1 | 60 | Cardiology I | 3 |
| Third S | Semes | eter (Summer) | |
| EMS | 220 | Cardiology II | 3 |
| EMS | 221 | EMS Clinical Practicum II | 2 |
| EMS | 140 | Rescue Scene Management | 2 |
| EMS | 240 | Patients W/ Special Challenges | 2 |
| Fourth | Seme | ester (Fall) | |
| BIO-16 | 9 | Anatomy and Physiology II | 4 |
| EMS-2 | 31 | EMS Clinical Pract III | 3 |
| EMS-2 | 50 | Medical Emergencies | 4 |
| EMS-2 | 60 | Trauma Emergencies | 2 |
| EMS-2 | 70 | Life Span Emergencies | 4 |
| ENG-1 | 14 | Prof Research & Reporting | 3 |
| Fifth S | emest | er | |
| EMS | 241 | EMS Clinical Practicum IV | 4 |
| EMS | 285 | EMS Capstone | 2 |
| PHI | 240 | Introduction to Ethics | 3 |
| SOC | 225 | Social Diversity | |
| Total (| Credit | Hours Required | 75 |

Basic Emergency Medical Science Certificate (C45340L1)

The certificate program prepares students for basic, entry level EMS positions as an EMT. Students learn basic emergency medical skills and procedures, emergency vehicle operations with hands-on driving experience, and other skills needed to enter the EMS field.

Courses requiring a grade of "C" or better: EMS, MED

| First Semester (Fall) | | Credits | |
|-----------------------------|-----|---------------------------------|----|
| EMS | 110 | EMT | 9 |
| EMS | 150 | Emergency Vehicles and EMS Comm | 2 |
| MED | 120 | Survey of Med Terminology | 2 |
| Total Credit Hours Required | | | 13 |

Emergency Medical Science Bridge Program (A45340BR)

The Emergency Medical Science Bridge Program is designed to allow currently certified non-degree paramedics to earn an Associate in Applied Science (A.A.S.) degree in Emergency Medical Science.

Specific Requirements

- General college admission requirements:
 - a. Complete application for admission.
 - b. Successfully complete College Placement Test.
 - Official transcript of any prior college credit on file with admissions office.
- Possess current North Carolina driver's license.
- 3. Complete interview with EMS Department faculty.
- 4. Current Paramedic certification. (A copy of the Paramedic Education Program Transcript must be on file in the EMS Department.)
- 5. Current Basic Cardiac Life Support certification.
- 6. Current Basic Trauma Life Support or pre-Hospital Trauma Life Support certification.
- 7. Current Basic Trauma Life Support certification.
- 8. Current Pediatric Advanced Life Support certification.

The above certifications and experience (4-8) will provide 40 hours of proficiency credit toward the A.A.S. degree and will count toward the A-B Tech residency requirement. These 40 hours represent the major area (EMS) courses required for EMT, Advanced EMT, and Paramedic certification that are not required as part of the EMS Bridge Program.

Emergency Medical Science Bridge Program Associate in Applied Science Degree (A45340BR)

Courses requiring a grade of "C" or better: BIO, EMS

| First Seme | Credits | |
|--------------------|-----------------------------------|----|
| BIO-168 | Anatomy and Physiology I | 4 |
| EMS-140 | Rescue Scene Management | 2 |
| EMS-150 | Emergency Vehicles & EMS Comm | 2 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-110 | Mathematical Measurement | 3 |
| | | |
| Second Se | mester (Spring) | |
| BIO-169 | Anatomy and Physiology II | 4 |
| EMS-280 | EMS Bridge Course | 3 |
| EMS-285 | EMS Capstone | 2 |
| | | |
| Third Semo | ester (Summer) | |
| ENG-114 | Professional Research & Reporting | 3 |
| PHI-240 | Introduction to Ethics | 3 |
| SOC-225 | Social Diversity | 3 |
| Total Credi | t Hours Required | 32 |

Public Safety Administration

The Public Safety Administration curriculum is designed to provide students, as well as practitioners, with knowledge and skills in the technical, managerial, and administrative areas necessary for entrance or advancement within various public safety and government organizations.

Course work in diverse subject areas includes public safety administration and education, interagency operations, crisis leadership, government and agency financial management, professional standards, incident management, administrative law, and supervision, while providing a streamlined pathway that recognizes the value of previously earned skill sets and credentials within the public safety sector.

Employment opportunities exist with fire or police departments, emergency management organizations, governmental agencies, industrial firms, correctional facilities, private industries, insurance organizations, educational organizations, security and protective organizations, and through self-employment opportunities.

Check our website for updates to this program: https://www.abtech.edu/academics/academic-programs/emergency-services/public-safety-administration.

Emergency Services

Public Safety Administration Associate in Applied Science Degree (A55480)

Courses requiring a grade of "C" or better: ACA, CJC, EMS, EPT, FIP, PAD, PST

| First Semes | Credits | |
|-------------|--------------------------------|---|
| ACA-115 | Success & Study Skills | 1 |
| CJC-170 | Critical Incident Mgmt Pub Saf | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| EPT-140 | Emergency Management | 3 |
| MAT-143 | Quantitative Literacy | 3 |
| PAD-151 | Intro to Public Admin | 3 |
| Second Se | mester (Spring) | |
| ENG-114 | Prof Research & Reporting | 3 |
| FIP-152 | Fire Protection Law | 3 |
| FIP-228 | Local Govt Finance | 3 |
| FIP-276 | Managing Fire Services | 3 |
| POL-120 | American Government | 3 |
| Third Seme | ester (Summer) | |
| HUM-115 | Critical Thinking | 3 |
| BUS-137 | Principles of Management | 3 |
| Fourth Sem | ester (Fall) | |
| PAD-252 | Public Policy Analysis | 3 |
| PAD-254 | Grant Writing | 3 |
| BUS-153 | Human Resource Management | 3 |
| BUS-270 | Professional Development | 3 |
| SPA-120 | Spanish for the Workplace | 3 |

Fifth Semester (Spring)

Corrections pathway: PST-120 and 4 credit hours from CJC courses EMS, Fire, or Emergency Management pathway: 12 credit hours from EMS, FIP, EPT, and/or PST courses

Law Enforcement pathway: 12 credit hours from CJC or PST courses

Total Credit Hours Required 6

Public Safety Administration: Corrections Management Certificate (C55480C1)

The Corrections Management certificate quickly prepares corrections officers for management positions within their facility or division, or other agencies. The certificate can be used as a building block toward the Public Safety Administration degree.

Courses requiring a grade of "C" or better: CJC, EPT, and PAD

| Required Courses | | Credits |
|--------------------|-------------------------------------|---------|
| CJC-141 | Corrections | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| PAD-151 | Intro to Public Admin | 3 |
| PST-120 | NCDPS Correctional Officer Training | 8 |
| Total Credi | it Hours Required | 17 |

Public Safety Administration: EMS Management Certificate (C55480E1)

The EMS Management certificate quickly prepares EMS professionals for management positions within their agency. For those working in fire departments providing EMS service, a Fire Service management class can be included to provide fire and EMS management knowledge. The certificate can be used as a building block toward the Public Safety Administration degree.

Courses requiring a grade of "C" or better: CJC, EMS, EPT, FIP, and PAD

| Required Courses | | Credits |
|---------------------|-----------------------|---------|
| EMS-235 | EMS Management | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| EPT-140 | Emergency Management | 3 |
| PAD-151 | Intro to Public Admin | 3 |
| Total Credit | 12 | |

Public Safety Administration: Fire Management Certificate (C55480F1)

The Fire Service Management certificate is designed to quickly prepare firefighters for advancement within their fire department. For those departments providing EMS service, an EMS management class can be included in the certificate to provide a broader education for dual service professionals. The certificate can be used as a building block toward the Public Safety Administration degree.

Courses requiring a grade of "C" or better: CJC, EMS, EPT, FIP, and PAD

| Required Courses | | Credits |
|-----------------------------|--------------------------|---------|
| ENG-111 | Writing and Inquiry | 3 |
| EPT-140 | Emergency Management | 3 |
| FIP-152 | Fire Protection Law | 3 |
| FIP-220 | Fire Fighting Strategies | 3 |
| FIP-276 | Managing Fire Services | 3 |
| Total Credit Hours Required | | 15 |

Public Safety Administration: Fire Safety Certificate (C55480F2)

Courses requiring a grade of "C" or better: CJC, EMS, EPT, FIP, and PAD

| Required Courses | | Credits |
|-----------------------------|-----------------------------|---------|
| FIP-120 | Intro to Fire Protection | 3 |
| FIP-12 | Fire Prevention & Public Ed | 3 |
| FIP-128 | Detection & Investigation | 3 |
| FIP-132 | Building Construction | 3 |
| FIP-140 | Industrial Fire Protection | 3 |
| FIP-152 | Fire Protection Law | 3 |
| Total Credit Hours Required | | 18 |

Public Safety Administration: Law Enforcement Management Certificate (C55480L1)

The Law Enforcement Management certificate is designed to quickly prepare officers, troopers, deputies for leadership roles in their agency. The certificate can be used as a building block toward the Public Safety Administration degree.

Courses requiring a grade of "C" or better: CJC, EPT, and PAD

| Required Courses | | Credits |
|-----------------------------|--------------------------------|---------|
| CJC-170 | Critical Incident Mgmt Pub Saf | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| EPT-140 | Emergency Management | 3 |
| PAD-151 | Intro to Public Admin | 3 |
| Total Credit Hours Required | | 12 |

Public Safety Administration: Public Safety Management Certificate (C55480P1)

The Public Safety Management certificate quickly prepares professionals from any of the public safety disciplines for a variety of management positions. The certificate provides knowledge in EMS, Fire, Law Enforcement, and Emergency Management; a broad view of all public safety disciplines. The certificate can be used as a building block toward the Public Safety Administration degree.

Courses requiring a grade of "C" or better: CJC, EMS, EPT, FIP, PAD, and PST

| Required Courses | | Credits |
|------------------|----------------------------|---------|
| CJC-121 | Law Enforcement Operations | 3 |
| EMS-235 | EMS Management | 3 |
| EPT-140 | Emergency Management | 3 |
| FIP-276 | Managing Fire Services | 3 |
| PAD-151 | Intro to Public Admin | 3 |
| Total Credi | t Hours Required | 15 |

Engineering and Applied Technology

The Engineering and Applied Technology division offers a variety of Associate in Applied Science degree programs in engineering technologies and applied technologies.

Students enrolled in this division are provided an appropriate mix of theory and hands-on applications. Students in the diploma programs spend much of their time working under industrial shop conditions. Modern facilities include well-equipped laboratories and shops to support goals of the programs. Emphasis is placed on student proficiency in the use of procedures, equipment, and instruments related to the specific program area. Appropriate related and general education courses support these applied programs.

For students interested in starting or managing their own business, the Student Business Incubator is one of many programs and services offered by the A-B Tech Small Business Center/Business Incubator.

A.A.S. Degrees

Air Conditioning, Heating & Refrigeration Technology
Automotive Systems Technology
Civil Engineering Technology
Computer-Aided Drafting Technology
Computer Engineering Technology
Computer-Integrated Machining
Construction Management Technology
Diesel and Heavy Equipment Technology
Electrical Systems Technology
Electronics Engineering Technology
Geomatics Technology
Industrial Systems Technology
Mechanical Engineering Technology
Sustainability Technologies
Welding Technology

Diplomas

Air Conditioning, Heating & Refrigeration Technology
Automotive Systems Technology
Building Construction Science
Computer-Integrated Machining
Diesel and Heavy Equipment Technology
Electrical Systems Technology
Industrial Systems Mechatronics Diploma
Welding Technology

Certificates

Air Conditioning and Heating - Cooling Air Conditioning and Heating - Heating Automotive Systems Technology - Certificate I Automotive Systems Technology - Certificate II Architectural Drafting Basic Construction & Millwork Electrical Systems Technology: Building Instrumentation & Control Computer-Aided Drafting Technology Computer-Integrated Machining and CNC Programming Construction Management Technology Diesel and Heavy Equipment Technology Electrical Systems Technology: Electrical Wiring **Electronics Manufacturing** Geomatics Technology Land Surveying Fundamentals Industrial Systems Technology: Basic Maintenance Mechanical Engineering Technology: Automation & Robotics Solor Phototvoltaic Welding Technology - Basic Welding I

Associate Transfer Degree

Associate in Engineering – General pathway Associate in Engineering - Chemical Engineering pathway Associate in Engineering - Civil Engineering Pathway

The Uniform Articulation Agreement promotes educational advancement opportunities for Associate in Engineering (A10500) completers and the constituent institutions of The University of North Carolina in order to complete Bachelor of Science in Engineering degrees.

The Associate in Engineering (A10500) degree is designed for students who want to pursue a four-year degree in one of the engineering disciplines (for example, mechanical, civil, electrical, environmental, chemical, or biomedical).

Air Conditioning, Heating & Refrigeration Technology

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the start-up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

Air Conditioning, Heating & Refrigeration Technology Degree - Evening (A35100)

Courses requiring a grade of "C" or better: ACA, AHR, and ELC

| First Seme | ster (Fall) | Credits |
|------------|---------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| AHR-111 | HVACR Electricity | 3 |
| AHR-112 | Heating Technology | 4 |
| AHR-170 | Heating Lab | 1 |
| Second Se | emester (Spring) | |
| AHR-130 | HVAC Controls | 3 |
| ENG-110 | Freshman Composition | 3 |
| WLD-113 | Soldering and Brazing | 2 |
| Third Sem | ester (Fall) | |
| AHR-110 | Intro to Refrigeration | 5 |
| COM-110 | Intro Interpersonal Com | 3 |
| ELC-132 | Electrical Drawings | 2 |
| Fourth Sen | nester (Spring) | |
| AHR-113 | Comfort Cooling | 4 |
| AHR-171 | Comfort Cooling Lab | 1 |
| AHR-160 | Refrigerant Certification | 1 |
| AHR-213 | HVACR Building Code | 2 |
| | | |

| Fifth Seme | Fifth Semester (Fall) | | |
|-------------|----------------------------|----|--|
| AHR-114 | Heat Pump Technology | 4 | |
| EGR-125 | Appl Software for Tech | 2 | |
| WBL-111 | Work-Based Learning I | 1 | |
| Sixth Seme | ester (Spring) | | |
| AHR-211 | Residential Systems Design | 3 | |
| ELC-128 | Intro to PLC | 3 | |
| PHY-121 | Applied Physics I | 4 | |
| | | | |
| Seventh Se | emester (Fall) | | |
| ELC-117 | Motors and Controls | 4 | |
| HUM-110 | Technology and Society | 3 | |
| PSY-150 | General Psychology | 3 | |
| Eighth Sem | nester (Spring) | | |
| AHR-212 | Advanced Comfort Systems | 4 | |
| AHR-115 | Refrigeration Systems | 2 | |
| Total Credi | t Hours Required | 68 | |

Air Conditioning, Heating & Refrigeration Technology Diploma (D35100)

Courses requiring a grade of "C" or better: AHR and ELC

| First Seme | ster (Fall) | Credits |
|-------------|-------------------------------|---------|
| AHR-111 | HVACR Electricity | 3 |
| AHR-112 | Heating Technology | 4 |
| AHR-130 | HVAC Controls | 3 |
| AHR-170 | Heating Lab | 1 |
| ELC-132 | Electrical Drawings | 2 |
| PHY-121 | Applied Physics I | 4 |
| WLD-113 | Soldering and Brazing | 2 |
| Second Se | mester (Spring) | |
| AHR-110 | Introduction to Refrigeration | 5 |
| AHR-113 | Comfort Cooling | 4 |
| AHR-160 | Refrigerant Certification | 1 |
| AHR-171 | Comfort Cooling Lab | 1 |
| AHR-213 | HVACR Building Code | 2 |
| COM-110 | Intro Interpersonal Com | 3 |
| Third Seme | ester (Summer) | |
| AHR-114 | Heat Pump Technology | 4 |
| WBL-111 | Work-Based Learning I | 11 |
| Total Credi | t Hours Required | 40 |

Air Conditioning Cooling Certificate (C35100L3)

The Cooling Certificate program teaches the student concepts and skills needed to install and service various types of domestic cooling systems. The material for the EPA's CFC certification(s) will be covered, and the exam will be given during the program.

Courses requiring a grade of "C" or better: AHR

| Required Courses | | Credits |
|-----------------------------|---------------------------|---------|
| AHR-110 | Intro to Refrigeration | 5 |
| AHR-113 | Comfort Cooling | 4 |
| AHR-114 | Heat Pump Technology | 4 |
| AHR-160 | Refrigerant Certification | 1 |
| AHR-171 | Comfort Cooling Lab | 1 |
| WBL-111 | Work-Based Learning I | 1 |
| Total Credit Hours Required | | |

Heating Certificate (C35100L4)

The Heating Certificate program teaches students concepts and skills needed to service and repair domestic and light commercial heat pumps, air conditioning, and heating units.

The Air Conditioning and Heating Basic Certificate program must be completed successfully before beginning this program.

Courses requiring a grade of "C" or better: AHR

| Required Courses | | Credits |
|------------------|-----------------------|---------|
| AHR-111 | HVACR Electricity | 3 |
| AHR-112 | Heating Technology | 4 |
| AHR-130 | HVAC Controls | 3 |
| AHR-170 | Heating Lab | 1 |
| ELC-132 | Electrical Drawings | 2 |
| WLD-113 | Soldering and Brazing | 2 |
| Total Credi | t Hours Required | 15 |

Automotive Systems Technology

The Automotive Systems Technology program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air conditioning systems.

The Automotive Systems Technology program is accredited at the Master Automotive Service Technician level by:

ASE Education Foundation

Leesburg, VA 20176 Phone: (703) 669-6650

http://www.aseeducationfoundation.org

Automotive Systems Technology Associate in Applied Science Degree (A60160)

Courses requiring a grade of "C" or better: ACA, AUT, TRN and WBL

| First Semes | ster (Fall) | Cred |
|-------------|-----------------------------------|------|
| ACA-115 | Success & Study Skills | 1 |
| AUT-116 | Engine Repair | 3 |
| AUT-116A | Engine Repair Lab | 1 |
| PHY-121 | Applied Physics 1 | 4 |
| TRN-110 | Intro to Transport Tech | 2 |
| TRN-120 | Basic Transp Electricity | 5 |
| WBL-110 | World of Work | 1 |
| Second Se | mester (Spring) | |
| AUT-151 | Brake Systems | 3 |
| AUT-151A | Brake Systems Lab | 1 |
| AUT-181 | Engine Performance I | 3 |
| AUT-281 | Advanced Engine Performance | 3 |
| ENG-110 | Freshman Composition | 3 |
| TRN-145 | Adv Transp Electronics | 3 |
| Third Seme | ster (Summer) | |
| AUT-141 | Suspension and Steering | 3 |
| AUT-141A | Suspension and Steering Lab | 1 |
| TRN-130 | Intro to Sustainable Transp | 3 |
| TRN-140 | Transp Climate Control | 2 |
| TRN-140A | Transp Climate Cont Lab | 2 |
| Fourth Sem | ester (Fall) | |
| AUT-231 | Man Trans/Axles/Drtrains | 3 |
| AUT-231A | Man Trans/Ax/Drtrains Lab | 1 |
| HUM-110 | Technology and Society | 3 |
| WBL-112 | Work Based Learning I | 2 |
| COM-120 | Intro Interpersonal Communication | 3 |
| Fifth Semes | ster (Spring) | |
| AUT-221 | Auto Transm/Transaxles | 3 |
| AUT-221A | Auto Transm/Transax Lab | 1 |
| PSY-150 | General Psychology | 3 |
| WBL-122 | Work Based Learning II | 2 |

Automotive Systems Technology Diploma (D60160)

Courses requiring a grade of "C" or better: ACA, AUT, and TRN

| First Semest | ter (Fall) | Credits |
|---------------------|-----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| AUT-116 | Engine Repair | 3 |
| AUT-116A | Engine Repair Lab | 1 |
| PHY-121 | Applied Physics 1 | 4 |
| TRN-110 | Intro to Transport Tech | 2 |
| TRN-120 | Basic Transp Electricity | 5 |
| WBL-110 | World of Work | 1 |
| | | |
| Second Sem | nester (Spring) | |
| AUT-151 | Brake Systems | 3 |
| AUT-151A | Brake Systems Lab | 1 |
| AUT-181 | Engine Performance I | 3 |
| AUT-281 | Adv Engine Performance | 3 |
| ENG-110 | Freshman Composition | 3 |
| TRN-145 | Adv Transp Electronics | 3 |
| | | |
| Third Semes | ster (Summer) | |
| AUT-141 | Suspension and Steering Sys | 3 |
| AUT-141A | Suspension and Steering Lab | 1 |
| TRN-130 | Intro to Sustainable Transp | 3 |
| TRN-140 | Transp Climate Control | 2 |
| TRN-140A | Transp Climate Control Lab | 2 |
| Total Credit | Hours Required | 44 |

Automotive Systems Technology - Certificate I (C60160L6)

Courses requiring a grade of "C" or better: AUT and TRN

| First Semester (Fall) | | er (Fall) | Credits |
|-----------------------|----------------|--------------------------|---------|
| | AUT-116 | Engine Repair | 3 |
| | AUT-116A | Engine Repair Lab | 1 |
| | TRN-110 | Intro to Transport Tech | 2 |
| | TRN-120 | Basic Transp Electricity | 5 |
| | WBL-110 | World of Work | 1 |
| | Total Credit I | Hours Required | 12 |

Automotive Systems Technology - Certificate II (C60160L7)

The Automotive Systems Technology Certificate I program must be completed successfully before beginning this program.

Courses requiring a grade of "C" or better: AUT and TRN

| Second Semester (Spring) | | Credits |
|-----------------------------|------------------------|---------|
| AUT-181 | Engine Performance I | 3 |
| AUT-281 | Adv Engine Performance | 3 |
| TRN-145 | Adv Transp Electronics | 3 |
| AUT-151 | Brake Systems | 3 |
| AUT-151A | Brake Systems Lab | 11 |
| Total Credit Hours Required | | 13 |

Civil Engineering Technology

The Civil Engineering Technology course of study prepares students to use basic engineering principles and technical skills to carry out planning, documenting, and supervising tasks in sustainable land development, public works, and facilities projects.

Coursework includes instruction in the communication and computational skills required for materials testing, structural testing, field and laboratory testing, site analysis, estimating, project management, plan preparation, hydraulics, environmental technology, and surveying.

Graduates should qualify for technician-level jobs with both public and private engineering, construction, and surveying agencies.

Civil Engineering Technology Associate in Applied Science Degree (A40140)

Courses requiring a grade of "C" or better: ACA, CEG, CIV, DFT, EGR, MAT, and SRV

| First Seme | Credits | |
|------------|----------------------------------|---|
| CEG-111 | Intro to GIS and GNSS | 4 |
| CEG-115 | Intro to Tech & Sustainability | 3 |
| EGR-110 | Introduction to Engineering Tech | 2 |
| EGR-125 | Appl Software for Tech | 2 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| | | |
| Second Se | mester (Spring) | |
| DFT-151 | CAD I | 3 |
| EGR-250 | Statics/Strength of Materials | 5 |
| MAT-122 | Algebra/Trigonometry II | 3 |
| SRV-110 | Surveying I | 4 |

3

67

| Third Semester (Summer) | | Second Se | Second Semester (Spring) | | |
|---------------------------------------|-------------------------------|------------|--------------------------|-----------------------------|---|
| CEG-211 | Hydrology & Erosion Control | 3 | ARC-112 | Constr Matls & Methods | 4 |
| ENG-111 | Writing and Inquiry | 3 | ARC-113 | Residential Arch Tech | 3 |
| PSY-150 | General Psychology | 3 | BPR-121 | Blueprint Reading-Mech | 2 |
| SRV-111 | Surveying II | 4 | DFT-152 | CAD II | 3 |
| | | | MAT-121 | Algebra/Trigonometry I | 3 |
| Fourth Sen | nester (Fall) | | | | |
| CEG-212 | Intro to Environmental Tech | 3 | Third Semo | ester (Summer) | |
| CIV-125 | Civil/Surveying CAD | 3 | COM-231 | Public Speaking | 3 |
| CIV-215 | Highway Technology | 3 | ENG-111 | Writing and Inquiry | 3 |
| CIV-220 | Basic Structural Concepts | 2 | MUS-110 | Music Appreciation | 3 |
| HUM-115 | Critical Thinking | 3 | PSY-150 | General Psychology | 3 |
| Fifth Seme | ster (Spring) | | Fourth Sen | nester (Fall) | |
| CEG-210 | Construction Mtls & Methods | 3 | ARC-230 | Environmental Systems | 4 |
| CEG-235 | Project Management/Estimating | 3 | DFT-153 | CAD III | 3 |
| CIV-111 | Soils and Foundations | 4 | DFT-154 | Intro to Solid Modeling | 3 |
| CIV-250 | Civil Eng Tech Project | 2 | LAR-210 | Prin of Landscape Arch | 2 |
| ENG-114 | Prof Research & Reporting | 3 | | | |
| Total Credit Hours Required 71 | | Fifth Seme | ster (Spring) | | |
| | | | CET-111 | Computer Upgrade/Repair I | 3 |
| | | | DFT-254 | Intermed Solid Model/Render | 3 |
| Computer-Aided Drafting Technology | | DFT-259 | CAD Project | 3 | |
| Computer-Article Draiting reciniology | | MEC-110 | Introduction to CAD/CAM | 2 | |

The Computer-Aided Drafting Technology curriculum prepares students to apply technical skills and advanced computer software and hardware to develop plans and related documentation, and manage the hardware and software of a CAD system. Includes instruction in architectural drafting, computerassisted drafting and design (CADD), creating and managing two and three-dimensional models, linking CAD documents to other software applications, and operating systems. Graduates should qualify for CAD jobs in architectural and engineering firms and industrial design businesses. Sustainable design practices are emphasized.

Computer-Aided Drafting Technology Associate in Applied Science Degree (A50150)

Courses requiring a grade of "C" or better: ACA, ARC, ART, BPR, CET, CIS, DFT, EGR, GIS, LAR, and MEC

| First Semester (Fall) | | Credits |
|-----------------------|--------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| ARC-111 | Intro to Arch Technology | 3 |
| BPR-111 | Print Reading | 2 |
| DFT-151 | CADI | 3 |
| EGR-125 | Appl Software for Tech | 2 |
| SST-110 | Intro to Sustainability | 3 |

Major Electives: ARC-131, ARC-261, ART-121, ART-171, CET-211, GIS-111, WBL-111, WBL-112

Computer-Aided Drafting Certificate (C50150L1)

Major Elective

Total Credit Hours Required

The purpose of this certificate program is to provide basic computer-aided drafting (CAD) skills. Students learn CAD techniques for producing 2D and 3D technical drawings using different CAD software programs. Accurate and efficient use of the computer and software are emphasized.

Courses requiring a grade of "C" or better: DFT

| First Semester (Fall) | | Credits |
|-----------------------------|-------------------------|---------|
| DFT-151 | CAD I | 3 |
| Second Sei | mester (Spring) | |
| DFT-152 | CAD II | 3 |
| Third Comm | -4 (F-III) | |
| Third Seme | ester (Faii) | |
| DFT-153 | CAD III | 3 |
| DFT-154 | Intro to Solid Modeling | 3 |
| Total Credit Hours Required | | 12 |

Architectural Drafting Certificate (C50150L2)

The purpose of this certificate program is to provide basic architectural drafting skills. Students will produce residential construction drawings, including floor plans, foundation plans, typical wall sections, elevations, and details following standard practices. Topics include drafting practices, 2D CAD software, traditional and sustainable building methods, and building materials.

Courses requiring a grade of "C" or better: ARC, DFT

| First Semes | Credits | | | | |
|---------------------|-------------------------------------|---|--|--|--|
| ARC-111 | Intro to Architecture Technology | 3 | | | |
| DFT-151 | CAD I | 3 | | | |
| | | | | | |
| Second Sen | Second Semester (Spring) | | | | |
| ARC-112 | Construction Materials and Methods | 4 | | | |
| ARC-113 | Residential Architecture Technology | 3 | | | |
| Total Credit | 13 | | | | |

Computer Engineering Technology

The Computer Engineering Technology program prepares the students to use basic engineering principles and technical skills for installing, servicing, and maintaining computers, peripherals, networks, and microprocessor and computer controlled equipment. Includes instruction in mathematics, computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation. Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

Computer Engineering Technology Associate in Applied Science Degree (A40160)

Courses requiring a grade of "C" or better: CET, CSC, EGR, ELC, and ELN

| First Semester (Fall) | | Credits |
|-----------------------|---------------------------|---------|
| CET-111 | Computer Upgrade/Repair I | 3 |
| EGR-110 | Intro to Engineering Tech | 2 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| ELC-111 | Intro to Electricity | 3 |

| Second Semester (Spring) | | | |
|--------------------------|--------------------------|----|--|
| ATR-112 | Intro to Automation | 3 | |
| ELC-127 | Software for Technicians | 2 | |
| MAT-122 | Algebra/Trigonometry II | 3 | |
| ELC-131 | Circuit Analysis I | 4 | |
| HUM-110 | Technology and Society | 3 | |
| Third Seme | ster (Summer) | | |
| COM-231 | Public Speaking | 3 | |
| ELC-117 | Motors and Controls | 4 | |
| ELC-225 | Data Communications/Mfg | 4 | |
| PHY-151 | College Physics | 4 | |
| Fourth Sem | ester (Fall) | | |
| CET-161 | Procedural Programming | 3 | |
| ELC-128 | Introduction to PLC | 3 | |
| ELN-131 | Analog Electronics I | 4 | |
| ELN-133 | Digital Electronics | 4 | |
| ELN-152 | Fabrication Techniques | 2 | |
| Fifth Semes | ter (Spring) | | |
| ELC-228 | PLC Applications | 4 | |
| ELN-232 | Intro to Microprocessors | 4 | |
| ELN-234 | Communications Systems | 4 | |
| PSY-150 | General Psychology | 3 | |
| Total Credit | Hours Required | 75 | |

Students seeking transfer for a bachelor's degree in engineering technology should consult their advisor about the Math requirements at the transfer university.

Computer-Integrated Machining

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development, and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement, and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Computer-Integrated Machining Associate in Applied Science Degree (A50210)

Courses requiring a grade of "C" or better: ACA, BPR, ISC, MAC, MEC, WBL, and WLD

| First Semes | ter (Fall) | Credits |
|-------------|---------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| BPR-111 | Print Reading | 2 |
| ISC-112 | Industrial Safety | 2 |
| MAC-121 | Intro to CNC | 2 |
| MAC-141 | Machining Applications I | 4 |
| MAC-151 | Machining Calculations | 2 |
| PSY-150 | General Psychology | 3 |
| | | |
| Second Sen | nester (Spring) | |
| BPR-121 | Blueprint Reading-Mech | 2 |
| ENG-110 | Freshman Composition | 3 |
| MAC-122 | CNC Turning | 2 |
| MAC-124 | CNC Milling | 2 |
| MAC-142 | Machining Applications II | 4 |
| MAC-142A | Machining Appl II Lab | 2 |
| MAC-152 | Adv Machining Calc | 2 |
| | | |
| Third Seme | ster (Summer) | |
| MAC-143 | Machining Appl III | 4 |
| MAC-248 | Production Procedures | 2 |
| | | |

| Fourth Semester (Fall) | | | |
|-----------------------------|---------------------------|---|--|
| MAC-226 | CNC EDM Machining | 2 | |
| MAC-241 | Jigs & Fixtures I | 4 | |
| MEC-231 | Computer-Aided Manufact I | 3 | |
| MAT-121 | Algebra/Trigonometry | 3 | |
| WLD-112 | Basic Welding Processes | 2 | |
| | | | |
| Fifth Semes | ster (Spring) | | |
| COM-120 | Intro Interpersonal Com | 3 | |
| MAC-222 | Advanced CNC Turning | 2 | |
| MAC-224 | Advanced CNC Milling | 2 | |
| MAC-245 | Mold Construction I | 4 | |
| MEC-232 | Comp-Aided Manuf II | 3 | |
| HUM-115 | Critical Thinking | 3 | |
| Total Credit Hours Required | | | |

Computer-Integrated Machining - Diploma (D50210)

Courses requiring a grade of "C" or better: ACA, BPR, ISC, MAC, WBL, and WLD

| First Semes | Credits | |
|--------------|------------------------------|----|
| ACA-115 | Success & Study Skills | 1 |
| BPR-111 | Print Reading | 2 |
| ISC-112 | Industrial Safety | 2 |
| MAC-121 | Intro to CNC | 2 |
| MAC-141 | Machining Applications I | 4 |
| MAC-151 | Machining Calculations | 2 |
| WLD-112 | Basic Welding Processes | 2 |
| PSY-150 | General Psychology | 3 |
| Second Sen | nester (Spring) | |
| BPR-121 | Blueprint Reading-Mech | 2 |
| MAC-142 | Machining Applic. II | 4 |
| MAC-142A | Machining Application II Lab | 2 |
| MAC-152 | Adv Machining Calc | 2 |
| ENG-110 | Freshman Composition | 3 |
| MAC-122 | CNC Turning | 2 |
| MAC-124 | CNC Milling | 2 |
| Third Seme | ster (Summer) | |
| MAC-248 | Production Procedures | 2 |
| MAC-143 | Machining Appl III | 4 |
| Total Credit | Hours Required | 41 |

Computer-Integrated Machining - Basic Machining and CNC Programming Certificate (C50210L5)

The purpose of this certificate program is to introduce basic CAD/CAM programming skills to individuals who want to learn CNC machining. Students will learn 2D and 3D programming as well as 2 axis and 3 axis machining. The student will make the parts they design.

Courses requiring a grade of "C" or better: BPR and MAC

| Courses Required | | Credits |
|---------------------|--------------------------|---------|
| BPR-111 | Print Reading | 2 |
| BPR-121 | Blueprint Reading-Mech | 2 |
| MAC-121 | Intro to CNC | 2 |
| MAC-122 | CNC Turning | 2 |
| MAC-124 | CNC Milling | 2 |
| MAC-141 | Machining Applications I | 4 |
| MAC-151 | Machining Calculations | 2 |
| Total Credit | Hours Required | 16 |

Construction Management Technology

The Construction Management Technology program prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

Graduates will qualify for entry-level positions in the field of construction management.

CMT students are eligible for entry-level management positions in traditional commercial and residential construction projects as well as non-traditional construction projects such as large wind turbine and photovoltaic solar projects.

Construction Management Technology Associate in Applied Science (A35190)

Courses requiring a grade of "C" or better: ACA, ALT, ARC, BPR, CIS, CST, CIV, CMT, ELC, EGR, SPA, SST and WBL

| First Semester (Fall) | | Credits |
|-----------------------|----------------------------|---------|
| ARC-112 | Const Matls & Methods | 4 |
| BPR-130 | Print Reading-Construction | 3 |
| CIS-111 | Basic PC Literacy | 2 |
| ACA-115 | Success & Study Skills | 1 |
| | Major Elective | 8 |

| Second Se | mester (Spring) | |
|--------------|------------------------------|----|
| ARC-131 | Building Codes | 3 |
| CST-241 | Planning/Estimating I | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| SST-140 | Green Bldg & Design Concepts | 3 |
| | Other Required Elective | 3 |
| | Major Elective | 4 |
| Third Seme | ester (Summer) | |
| COM-120 | Intro Interpersonal Com | 3 |
| WBL-111 | Work-Based Learning I | 1 |
| HUM-115 | Critical Thinking | 3 |
| SOC-210 | Introduction to Sociology | 3 |
| Fourth Sem | nester (Fall) | |
| ACC-120 | Prin of Financial Accounting | 4 |
| CMT-210 | Construction Management Fund | 3 |
| CMT-212 | Total Safety Performance | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| Fifth Semes | ster (Spring) | |
| CMT-214 | Planning & Scheduling | 3 |
| CMT-216 | Cost & Productivity | 3 |
| CMT-218 | Human Relation Issues | 3 |
| SPA-120 | Spanish for the Workplace | 3 |
| Total Credit | t Hours Required | 72 |

Major Electives: ALT-120, CAB-119, CST-111, CST-112, CST-113,

CST-244, ELC-111, SST-110, SST-120

Other Required Electives: CST-150, DFT-151, ELC-220

CMT-212, CMT-214, CMT-216, and CMT-218 classes are offered in the evenings only.

ARC-112, CST-111, CST-112, CST-113, and SST-140 are offered as day classes only.

Building Construction Science Diploma - Day Schedule (D35190)

This program focuses on live projects and handson activities to teach students energy efficient
construction materials and methods associated
with high-performance buildings. Students will learn
advanced framing methods and other alternative
building techniques associated with 'green building'.
Students will also learn energy auditing techniques
and software associated with building energy analysis.
Students will graduate from this program with the
skills required to build high-performance buildings
and monitor their energy use. As the construction
industry reinvents itself around more sustainable
building concepts, the Building Construction Science
Program at A-B Tech is the "go to" place for training
and retraining for a new era of construction.

All credits in this program can transfer into the Associates Degree in Construction Management Technology, which would allow a student to graduate in two years with a diploma and a degree. Many of the credits transfer into our Sustainability Technologies program as well. Furthermore, some credits will transfer into four-year programs.

Courses requiring a grade of "C" or better: ARC, BPR, CIS, CMT, CST, and SST

| First Semes | ter (Fall) | Credits |
|---------------------|------------------------------|---------|
| ARC-112 | Constr Matls & Methods | 4 |
| BPR-130 | Print Reading - Construction | 3 |
| CIS-111 | Basic PC Literacy | 2 |
| CMT-210 | Construction Management Fund | 3 |
| CST-111 | Construction I | 4 |
| CST-112 | Construction II | 4 |
| | | |
| Second Sen | nester (Spring) | |
| ARC-131 | Building Codes | 3 |
| CST-113 | Construction III | 4 |
| CST-244 | Sustainable Bldg. Design | 3 |
| CST-241 | Planning/ Estimating I | 3 |
| SST-120 | Energy Use Analysis | 3 |
| SST-140 | Green Bldg & Design Concepts | 3 |
| Third Semes | ster (Summer) | |
| ENG-110 | Freshman Composition | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| Total Credit | Hours Required | 45 |

Construction Management Technology Certificate (C35190L1)

The Construction Management Technology certificate is designed for the skilled tradesman who is experienced in the construction industry and has the desire to advance to construction management.

Courses requiring a grade of "C" or better: BPR and CMT

| First Semester (Fall) | | Credits |
|-----------------------|------------------------------|---------|
| BPR-130 | Print Reading/Construction | 3 |
| CMT-210 | Construction Management Fund | 3 |
| CMT-212 | Total Safety Performance | 3 |
| | | |
| Second Se | mester (Spring) | |
| CMT-214 | Planning and Scheduling | 3 |
| CMT-216 | Costs and Productivity | 3 |
| CMT-218 | Human Relations Issues | 3 |
| Total Credi | t Hours Required | 18 |

CMT 212, CMT 214, CMT 216, and CMT 218 classes are offered in the evenings only.

Basic Construction & Millwork Certificate - Day Schedule (C35190L2)

Whether you are building your own home or just looking for practical skills to help with projects around the house, the Basic Construction & Millwork Certificate program is consolidated and focuses on hands on construction cabinet-making/woodworking skill-sets.

Students who want to gain applicable skills for personal construction projects or to become more employable in the construction industry can look no further... the Basic Construction & Millwork program focuses on four classes that will help you become the handy man or woman you've always wanted to be.

One way to manage the affordable housing issue in our area is to have skills that can provide sweat equity in your own home or perhaps help pay the rent. These are practical skills that can be taken anywhere while providing the security of a labor force that is difficult to outsource in the global economy. Come utilize our great shop and equipment resources and see why A-B Tech is the community's Community College.

Courses requiring a grade of "C" or better: BPR, CST

| First Semes | ter (Fall) | Credits |
|---------------------|------------------------------|---------|
| BPR-130 | Print Reading - Construction | 3 |
| CAB-119 | Cabinetry/ Millworking | 7 |
| CST-111 | Construction I | 4 |
| CST-112 | Construction II | 4 |
| Total Credit | Hours Required | 18 |

Diesel and Heavy Equipment Technology

The Diesel and Heavy Equipment program prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment; as well as stationary diesel engines in electrical generators and related equipment.

Diesel and Heavy Equipment Diploma (D60460)

Courses requiring a grade of "C" or better: ACA, HET and TRN

| First Semester (Fall) | | Credits |
|-----------------------|--------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| HET-110 | Diesel Engines | 6 |
| HET-125 | Preventative Maintenance | 2 |
| MEC-111 | Machine Processes I | 3 |
| PHY-121 | Applied Physics I | 4 |
| TRN-110 | Intro to Transport Tech | 2 |

| Second Ser | mester (Spring) | |
|--------------|-----------------------------|----|
| ENG-110 | Freshman Composition | 3 |
| HET-115 | Electronic Engines | 3 |
| HET-119 | Mechanical Transmissions | 3 |
| TRN-120 | Basic Transp Electricity | 5 |
| TRN-120A | Basic Transp Electrical Lab | 1 |
| WLD-112 | Basic Welding Processes | 2 |
| Third Seme | ester (Summer) | |
| HET-231 | Med/Hvy. Duty Brake Systems | 2 |
| HET-233 | Suspension and Steering | 4 |
| HYD-112 | Hydraulics-Med/Heavy Duty | 2 |
| TRN-140 | Transp Climate Control | 2 |
| Total Credit | t Hours Required | 45 |

Diesel and Heavy Equipment Technology Associate in Applied Science - Associate Degree Completion (A60460) - Evening Only Program

To be taken after completion of Diploma (day) program.

Courses requiring a grade of "C" or better: HET, TRN and WBL

| Fourth Sem | iester (Fall) | |
|-------------|-----------------------------------|----|
| COM-120 | Intro Interpersonal Communication | 3 |
| HET-114A | Power Trains | 3 |
| HUM-110 | Technology and Society | 3 |
| WBL-112 | Work Based Learning I | 2 |
| | | |
| Fifth Seme | ster (Spring) | |
| HET-114B | Power Trains | 2 |
| PSY-150 | General Psychology | 3 |
| TRN-130 | Intro to Sustainable Transp | 3 |
| WBL-122 | Work Based Learning I | 2 |
| Total Credi | t Hours Required | 66 |
| | | |

Diesel and Heavy Equipment Technology Certificate (C60460L1)

Courses requiring a grade of "C" or better: HET and TRN

| First Semester (Fall) | | Credit |
|-----------------------|-----------------------------|--------|
| HET-110 | Diesel Engines | 6 |
| HET-125 | Preventative Maintenance | 2 |
| TRN-110 | Intro to Transport Tech | 2 |
| | | |
| Second Ser | mester (Spring) | |
| TRN-120 | Basic Transp Electricity | 5 |
| TRN-120A | Basic Transp Electrical Lab | 1 |
| | | |

| Third Semester (Summer) | | |
|-----------------------------|-----------------------------|----|
| HET-231 | Med/Hvy. Duty Brake Systems | 2 |
| Total Credit Hours Required | | 18 |

Electrical Systems Technology

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Electrical Systems Technology Associate in Applied Science Degree (A35130)

Courses requiring a grade of "C" or better: ALT, ATR, EGR, ELC, ELN, HYD, ISC, SST, and WBL

| First Semes | etor (Fall) | Credits |
|-------------|-------------------------------|---------|
| | · · | 2 |
| EGR-110 | Intro to Engineering Tech | _ |
| ELC-111 | Intro To Electricity | 3 |
| ELC-113 | Residential Wiring | 4 |
| ENG-110 | Freshman Composition | 3 |
| MAT-121 | Algebra/Trigonometry | 3 |
| WBL-111 | Work-Based Learning | 1 |
| Second Ser | mester (Spring) | |
| ELC-115 | Industrial Wiring | 4 |
| ELC-131 | Circuit Analysis I | 4 |
| ELN-152 | Fabrication Techniques | 2 |
| ISC-121 | Envir Health & Safety | 3 |
| MAT-122 | Algebra/Trigonometry II | 3 |
| Third Seme | ster (Summer) | |
| ELC-117 | Motors and Controls | 4 |
| ELC-127 | Software for Technicians | 2 |
| ELC-131A | Circuit Analysis I Lab | 1 |
| HUM-110 | Technology and Society | 3 |
| Fourth Sem | ester (Fall) | |
| ELC-128 | Introduction to PLC | 3 |
| ELN-133 | Digital Electronics | 4 |
| ELN-131 | Analog Electronics I | 4 |
| ISC-135 | Principles of Industrial Mgmt | 4 |

| Fifth Semester (Spring) | | |
|-------------------------|--------------------------|----|
| ATR-112 | Introduction to Robots | 3 |
| COM-231 | Public Speaking | 3 |
| ELC-118 | National Electrical Code | 2 |
| ELC-213 | Instrumentation | 4 |
| ELC-228 | PLC Applications | 4 |
| PSY-150 | General Psychology | 3 |
| Total Credit | Hours Required | 74 |

See advisor for WBL 111 options.

Electrical Systems Technology Diploma (D35130)

Courses requiring a grade of "C" or better: ELC and ELN

| First Semester (Fall) | | Credits |
|-----------------------|--------------------------|---------|
| ELC-111 | Intro to Electricity | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| Second Sen | nester (Spring) | |
| ELC-127 | Software for Technicians | 2 |
| ELC-131 | Circuit Analysis I | 4 |
| ELN-152 | Fabrication Techniques | 2 |
| Third Semes | ster (Summer) | |
| COM-120 | Intro Interpersonal Com | 3 |
| ELC-131A | Circuit Analysis I Lab | 1 |
| Fourth Seme | ester (Fall) | |
| ELC-113 | Residential Wiring | 4 |
| ELC-117 | Motors and Controls | 4 |
| Fifth Semest | ter (Spring) | |
| ELC-115 | Industrial Wiring | 4 |
| ELC-128 | Introduction to PLC | 3 |
| ELC-118 | National Electrical Code | 2 |
| ELC-213 | Instrumentation | 4 |
| Total Credit | Hours Required | 39 |

Electrical Systems Technology Electrical Wiring Certificate (C35130L1)

The Electrical Wiring Certificate program teaches the student the concepts and skills needed to install and repair residential, commercial, and industrial wiring systems. Preparation for state and local licenses are achieved through laboratory and classroom studies that focus on the National Electrical Code.

Courses requiring a grade of "C" or better: ELC

| First Semester (Fall) | | Credits |
|-----------------------------|--------------------------|---------|
| ELC-111 | Intro To Electricity | 3 |
| ELC-113 | Residential Wiring | 4 |
| Second Semester (Spring) | | |
| ELC-115 | Industrial Wiring | 4 |
| ELC-118 | National Electrical Code | 2 |
| Total Credit Hours Required | | 13 |

Electrical Systems Technology Building Instrumentation & Control Certificate (C35130L4)

The Building Instrumentation and Control Certificate program teaches the student the concepts and skills needed to program, install, calibrate, and service systems that acquire and record industrial and environmental data. It also is intended to prepare students to install and maintain automated energy and environmental control systems.

Courses requiring a grade of "C" or better: ELC

| First Semester (Fall) | | Credits |
|-----------------------------|----------------------|---------|
| ELC-111 | Intro to Electricity | 3 |
| ELC-128 | Intro to PLC | 3 |
| SST-120 | Energy Use Analysis | 3 |
| | | |
| Second Semester (Spring) | | |
| ELC-213 | Instrumentation | 4 |
| | | |
| Third Semes | ter (Summer) | |
| ELC-117 | Motors and Controls | 4 |
| Total Credit Hours Required | | 17 |

Electronics Engineering Technology

The Electronics Engineering Technology program prepares the students to apply basic engineering principles and technical skills to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers. Graduates should qualify for employment as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Electronics Engineering Technology Associate in Applied Science Degree (A40200)

Courses requiring a grade of "C" or better: DFT, EGR, ELC, ELN and WBL

| First Semes | ster (Fall) | Credits |
|-------------|-------------------------------|---------|
| CET-111 | Computer Upgrade/Repair I | 3 |
| EGR-110 | Intro to Engineering Tech | 2 |
| ELC-111 | Intro to Electricity | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| Second Se | mester (Spring) | |
| DFT-151 | CADI | 3 |
| ELC-131 | Circuit Analysis I | 4 |
| ELN-152 | Fabrication Techniques | 2 |
| ISC-135 | Principles of Industrial Mgmt | 4 |
| MAT-122 | Algebra/Trigonometry II | 3 |
| | | |
| Third Seme | ester (Summer) | |
| ELC-117 | Motors and Controls | 4 |
| ELC-127 | Software for Technicians | 2 |
| PHY-151 | College Physics I | 4 |
| HUM-110 | Technology and Society | 3 |
| PSY-150 | General Psychology | 3 |
| Fourth Sem | nester (Fall) | |
| COM-231 | Public Speaking | 3 |
| ELC-128 | Intro to PLC | 3 |
| ELN-131 | Analog Electronics I | 4 |
| ELN-133 | Digital Electronics | 4 |

| Fifth Semester (Spring) | | |
|-----------------------------|--------------------------|----|
| ELC-228 | PLC Applications | 4 |
| ELN-133A | Digital Electronics Lab | 1 |
| ELN-232 | Intro to Microprocessors | 4 |
| ELN-234 | Communication Systems | 4 |
| | Major Elective | 3 |
| Total Credit Hours Required | | 76 |

Students seeking transfer for a bachelor's degree in engineering technology should consult their advisor about the Math requirements at the transfer university.

Major Electives: CET-125, CET-161, ELC-213, ELC-225, ELC-228, ELC-229, ELN-237, ISC-112, ISC-121, MAT-271, PHY-152, SST-120, WBL-111/112

Electronics Manufacturing Certificate (C40200L1)

Courses requiring a grade of "C" or better: ELC

| Required Courses | | Credits |
|-----------------------------|-------------------------------|---------|
| ELC-111 | Intro to Electricity | 3 |
| ELC-131 | Circuit Analysis I | 4 |
| ELN-152 | Fabrication Techniques | 2 |
| ISC-121 | Envir Health & Safety | 3 |
| ISC-135 | Principles of Industrial Mgmt | 4 |
| Total Credit Hours Required | | 16 |

Geomatics Technology

The Geomatics Technology curriculum prepares students to use mathematical and scientific principles for the delineation, determination and planning of land tracts, boundaries, contours, and features by applying principles of route and construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other kinds of property description and measurement to create related maps, charts, and reports.

Course work includes instruction in applied geodesy, computer graphics, photointerpretation, plane and geodetic surveying, mensuration, traversing, survey equipment operation and maintenance, instrument calibration, and basic cartography.

Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Professional Land Surveyor and will also be able to transfer and complete a four-year degree in the field.

Geomatics Technology Associate in Applied Science Degree (A40420)

Courses requiring a grade of "C" or better: CEG, CIV, DFT, EGR, MAT, and SRV

| First Semes | ter (Fall) | Credits |
|--------------|----------------------------------|---------|
| CEG-111 | Intro to GIS and GNSS | 4 |
| CEG-115 | Intro to Tech & Sustainability | 3 |
| EGR-110 | Introduction to Engineering Tech | 2 |
| EGR-125 | Appl Software for Tech | 2 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| Second Ser | nester (Spring) | |
| DFT-151 | CAD I | 3 |
| ENG-111 | Writing and Inquiry | 3 |
| MAT-122 | Algebra/Trigonometry II | 3 |
| SRV-110 | Surveying I | 4 |
| Third Seme | ster (Summer) | |
| CEG-211 | Hydrology & Erosion Control | 3 |
| SRV-111 | Surveying II | 4 |
| HUM-115 | Critical Thinking | 3 |
| PSY-150 | General Psychology | 3 |
| Fourth Sem | ester (Fall) | |
| CIV-125 | Civil/Surveying CAD | 3 |
| CIV-215 | Highway Technology | 3 |
| SRV-210 | Surveying III | 4 |
| SRV-240 | Topographic/Site Surveying | 4 |
| Fifth Semes | ster (Spring) | |
| CEG-230 | Subdivision Planning & Design | 3 |
| ENG-114 | Prof. Research and Reporting | 3 |
| SRV-220 | Surveying Law | 3 |
| SRV-250 | Advanced Surveying | 4 |
| Total Credit | Hours Required | 66 |

Geomatics Technology Land Surveying Fundamentals Certificate (C40420L1)

Courses requiring a grade of "C" or better: CEG, DFT, MAT, and SRV

| First Semester (Fall) | | Credits |
|-----------------------------|--------------------------------|---------|
| CEG-111 | Intro to GIS and GNSS | 4 |
| CEG-115 | Intro to Tech & Sustainability | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| | | |
| Second Semester (Spring) | | |
| DFT-151 | CAD I | 3 |
| SRV-110 | Surveying I | 4 |
| Total Credit Hours Required | | 17 |

Industrial Systems Technology

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

Industrial Systems Technology Associate in Applied Science Degree (A50240)

Courses requiring a grade of "C" or better: ACA, AHR, BPR, CMT, DFT, EGR, ELC, HYD, ISC, MAC, MEC, MNT, WBL and WLD

| First Semes | ster (Fall) | Credits |
|-------------|------------------------------|---------|
| EGR-110 | Intro to Engineering Tech | 2 |
| BPR-111 | Print Reading | 2 |
| DFT-151 | CAD I | 3 |
| EGR-125 | Appl Software for Tech | 2 |
| ELC-111 | Intro to Electricity | 3 |
| ENG-110 | Freshman Composition | 3 |
| Second Se | mester (Spring) | |
| AHR-120 | HVACR Maintenance | 2 |
| BPR-121 | Blueprint Reading-Mech | 2 |
| CMT-210 | Construction Management Fund | 3 |
| COM-231 | Public Speaking | 3 |
| HYD-110 | Hydraulics/Pneumatics I | 3 |
| MEC-111 | Machining Processes I | 3 |
| MNT-110 | Intro to Maint Procedures | 2 |
| Third Seme | ster (Summer) | |
| ELC-117 | Motors and Controls | 4 |
| HUM-115 | Critical Thinking | 3 |
| PSY-150 | General Psychology | 3 |

| Fourth Semester (Fall) | | |
|------------------------|---------------------------|---|
| ELC-128 | Intro to PLC | 3 |
| ISC-112 | Industrial Safety | 2 |
| ATR-112 | Intro to Automation | 3 |
| PHY-121 | Applied Physics | 4 |
| WLD-112 | Basic Welding Processes | 2 |
| | Major Elective | 2 |
| | | |
| Fifth Semes | ster (Spring) | |
| ELC-213 | Instrumentation | 4 |
| MNT-111 | Maintenance Practices | 3 |
| ELC-115 | Industrial Wiring | 4 |
| MNT-240 | Indust Equip Troubleshoot | 2 |
| | Major Elective | 3 |

Major Electives: ATR-212, ELC-228, MEC-145, WBL-111, WBL-121, WBL-112

Total Credit Hours Required

Industrial Systems Mechatronics Diploma (D50240)

Courses requiring a grade of "C" or better: ACA, AHR, BPR, CMT, DFT, EGR, ELC, HYD, ISC, MAC, MEC, MNT, WBL and WLD

| First Semes | ster (Fall) | Credits |
|-------------|---------------------------|---------|
| ATR-112 | Intro to Automation | 3 |
| BPR-111 | Print Reading | 2 |
| ELC-111 | Intro to Electricity | 3 |
| ELC-128 | Intro to PLC | 3 |
| MEC-111 | Machining Processes I | 3 |
| PHY-121 | Applied Physics | 4 |
| WLD-112 | Basic Welding Processes | 2 |
| Second Se | mester (Spring) | |
| ELC-115 | Industrial Wiring | 4 |
| ELC-228 | PLC Applications | 4 |
| HYD-110 | Hydraulics/Pneumatics I | 3 |
| ISC-112 | Industrial Safety | 2 |
| ATR-212 | Industrial Robots | 3 |
| MNT-110 | Intro to Maint Procedures | 2 |
| Third Seme | ester (Summer) | |
| ELC-117 | Motors and Controls | 4 |
| ENG-110 | Freshman Composition | 3 |
| Total Credi | t Hours Required | 45 |

Industrial Systems Technology Basic Maintenance Certificate (C50240L1)

The Industrial Systems Basic Maintenance program teaches the student concepts and skills needed to service and repair various types of mechanical equipment.

Courses requiring a grade of "C" or better: BPR, DFT, ELC, HYD, ISC, MNT, and WLD

| Courses | | Credits |
|---------------------|---------------------------|---------|
| BPR-111 | Print Reading | 2 |
| DFT-151 | CADI | 3 |
| ELC-111 | Intro to Electricity | 3 |
| HYD-110 | Hydraulics/Pneumatics I | 3 |
| ISC-112 | Industrial Safety | 2 |
| MNT-110 | Intro to Maint Procedures | 2 |
| WLD-112 | Basic Welding Processes | 2 |
| Total Credit | Hours Required | 17 |

Mechanical Engineering Technology

A course of study that prepares students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Mechanical Engineering Technology Associate in Applied Science Degree (A40320)

Courses requiring a grade of "C" or better: ATR, BPR, DFT, EGR, ELC, HYD, ISC, MAC, MAT, MEC, PLA and WBL

| First Semester (Fall) | | Credits |
|-----------------------|---------------------------------|---------|
| EGR-110 | Intro to Engineering Technology | 2 |
| BPR-111 | Print Reading | 2 |
| EGR-125 | Appl Software for Tech | 2 |
| ELC-111 | Intro to Electricity | 3 |
| ENG-110 | Freshman Composition | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |

Credits

| Second Se | mester (Spring) | |
|-------------|-----------------------------|----|
| DFT-151 | CAD I | 3 |
| ISC-112 | Industrial Safety | 2 |
| HYD-110 | Hydraulics/Pneumatics I | 3 |
| MAT-122 | Algebra/Trigonometry II | 3 |
| MEC-111 | Machine Processes I | 3 |
| MEC-145 | Mfg. Materials I | 3 |
| Third Seme | ester (Summer) | |
| COM-231 | Public Speaking | 3 |
| HUM-115 | Critical Thinking | 3 |
| PSY-150 | General Psycholoy | 3 |
| Fourth Sem | ester (Fall) | |
| ATR-112 | Intro to Automation | 3 |
| DFT-154 | Intro to Solid Modeling | 3 |
| EGR-250 | Statics/Strength of Mater | 5 |
| ELC-128 | Intro to PLC | 3 |
| PLA-120 | Injection Molding | 3 |
| Fifth Seme | ster (Spring) | |
| ATR-212 | Industrial Robots | 3 |
| DFT-254 | Intermed Solid Model/Render | 3 |
| MEC-260 | Fund of Machine Design | 3 |
| PHY-151 | College Physics I | 4 |
| | Major Elective | 2 |
| Total Credi | t Hours Required | 73 |

Major Electives: BPR 121, ELC 117, WBL 111, WBL 122

Mechanical Engineering Technology -Automation & Robotics Certificate (C40320L5)

The Mechanical Engineering Technology Automation and Robotics Certificate program is designed to develop fundamental skills necessary to safely operate and maintain robotic and automated equipment. This certificate prepares students for employment opportunities in automated industries.

Courses requiring a grade of "C" or better: ATR and ELC

| Courses Required | | Credits |
|-----------------------------|----------------------|---------|
| ATR-112 | Intro to Automation | 3 |
| ATR-212 | Industrial Robots | 3 |
| ELC-111 | Intro to Electricity | 3 |
| ELC-117 | Motor and Controls | 4 |
| ELC-128 | Intro to PLC | 3 |
| Total Credit Hours Required | | 16 |

Sustainability Technologies

The Sustainability Technologies curriculum is designed to prepare individuals for employment in environmental, construction, renewable energy, or related industries, where key emphasis is placed on energy production and waste reduction along with sustainable technologies.

Course work includes renewable energy, green building technology, and environmental technologies. Additional topics may include sustainability, energy management, waste reduction, renewable energy, site assessment, and environmental responsibility.

Graduates should qualify for positions within the renewable energy, construction, and/or environmental industries. Employment opportunities exist in both the government and private industry sectors where graduates may function as renewable energy technicians, sustainability consultants, environmental technicians, or green building supervisors.

Sustainability Technologies Associates in Applied Science Technology - Day Schedule (A40370)

Courses requiring a grade of "C" or better: ALT, ARC, BIO, EGR, ELC, and SST

First Semester (Fall)

| ARC-112 | Construction Matls & Methods | 4 |
|-------------|----------------------------------|---|
| EGR-110 | Intro to Engineering Tech | 2 |
| ELC-111 | Intro to Electricity | 3 |
| MAT-121 | Algebra/Trigonometry I | 3 |
| SST-110 | Intro to Sustainability | 3 |
| | | |
| Second Sen | nester (Spring) | |
| ALT-120 | Renewable Energy Tech | 3 |
| ARC-111 | Intro to Arch Technology | 3 |
| ARC-131 | Building Codes | 3 |
| CST-111 | Construction I | 4 |
| DFT-151 | CAD I | 3 |
| SST-140 | Green Building & Design Concepts | 3 |
| | | |
| | ster (Summer) | |
| ENG-111 | Writing and Inquiry | 3 |
| HUM-115 | Critical Thinking | 3 |
| SOC-210 | Introduction to Sociology | 3 |
| Fourth Seme | astar (Fall) | |
| | • • | 0 |
| ARC-261 | Solar Technology | 2 |
| AGR-267 | Permaculture | 3 |
| CST-150 | Building Science | 3 |
| EGR-125 | Appl Software for Tech | 2 |
| ELC-220 | Photovoltaic Sys Tech | 3 |

| Fifth Semester (Spring) | | |
|-------------------------|---------------------------|----|
| ENG-114 | Prof Research & Reporting | 3 |
| BIO-140 | Environmental Biology | 3 |
| BIO-140A | Environmental Biology Lab | 1 |
| ELC-221 | Advanced PV Sys Designs | 3 |
| SST-120 | Energy Use Analysis | 3 |
| SST-210 | Issues on Sustainability | 3 |
| Total Credit | Hours Required | 72 |

Solor Phototvoltaic Certificate (C40370L1)

This certificate prepares students to work in the solar industry with hands-on applications & NABCEP focused instruction. The program focuses on the design and installation of photovoltaic (PV) systems although students will also learn about other clean & renewable energy production systems, energy modeling software, as well as the socio-political aspects of this growing industry.

Courses requiring a grade of "C" or better: ALT, EGR, ELC, and SST

| Course Requirements | | Credits |
|-----------------------------|-------------------------|---------|
| ALT-120 | Renewable Energy Tech | 3 |
| ELC-111 | Intro to Electricity | 3 |
| EGR-125 | Appl Software for Tech | 2 |
| ELC-220 | Photovoltaic Sys Tech | 3 |
| ELC-221 | Advanced PV Sys Designs | 3 |
| SST-110 | Intro to Sustainability | 3 |
| Total Credit Hours Required | | 17 |

Welding Technology

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry. Instruction includes consumable and non-consumable electrode welding and cutting processes.

Courses provide the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Welding Technology Associate in Applied Science Degree (A50420)

Courses requiring a grade of "C" or better: ACA and WLD

| First Seme | ster (Fall) | Credits |
|------------|-----------------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| PHY-121 | Applied Physics I | 4 |
| WLD-110 | Cutting Processes | 2 |
| WLD-115 | SMAW (Stick) Plate | 5 |
| WLD-121 | GMAW (MIG) FCAW/Plate | 4 |
| Second Se | mester (Spring) | |
| ENG-110 | Freshman Composition | 3 |
| WLD-116 | SMAW (Stick) Plate/Pipe | 4 |
| WLD-131 | GTAW (TIG) Plate | 4 |
| WLD-141 | Symbols and Specifications | 3 |
| COM-120 | Intro Interpersonal Communication | 3 |
| Third Seme | ester (Summer) | |
| WLD-122 | GMAW (MIG) Plate/Pipe | 3 |
| WLD-132 | GTAW (TIG) Plate/Pipe | 3 |
| Fourth Sem | nester (Fall) | |
| ISC-121 | Envir Health & Safety | 3 |
| MEC-111 | Machine Processes I | 3 |
| WLD-151 | Fabrication I | 4 |
| WLD-231 | GTAW (TIG) Pipe | 3 |
| WLD-262 | Inspection & Testing | 3 |
| MUS-110 | Music Appreciation | 3 |

| Fifth Semester (Spring) | | | |
|-------------------------------|-------------------------|---|---|
| MEC-110 | Intro to CAD/CAM | | 2 |
| WLD-215 | SMAW (Stick) Pipe | | 4 |
| WLD-251 | Fabrication II | | 3 |
| WLD-261 | Certification Practices | | 2 |
| PSY-150 | General Psychology | | 3 |
| Total Credit Hours Required 2 | | 2 | |

Welding Technology - Diploma (D50420)

Courses requiring a grade of "C" or better: ACA and WLD

| First Seme | ster (Fall) | Credits |
|--------------------|----------------------------|---------|
| ACA-115 | Success & Study Skills | 1 |
| PHY-121 | Applied Physics I | 4 |
| WLD-110 | Cutting Processes | 2 |
| WLD-115 | SMAW (Stick) Plate | 5 |
| WLD-121 | GMAW (MIG) FCAW/Plate | 4 |
| Second Se | mester (Spring) | |
| ENG-110 | Freshman Composition | 3 |
| MEC-110 | Intro to CAD/CAM | 2 |
| WLD-116 | SMAW (Stick) Plate/Pipe | 4 |
| WLD-131 | GTAW (TIG) Plate | 4 |
| WLD-141 | Symbols and Specifications | 3 |
| Third Seme | ester (Summer) | |
| WLD-122 | GMAW (MIG) Plate/Pipe | 3 |
| WLD-132 | GTAW (TIG) Plate/Pipe | 3 |
| Total Credi | t Hours Required | 38 |

Welding Technology - Basic Welding Certificate I (C50420L2)

The following courses give students a basic understanding of the principles and skills of modern day welding. Upon completion, students should be able to apply basic welding techniques in both SMAW and GMAW welding.

Courses requiring a grade of "C" or better: WLD

| Courses Required | | Credits |
|-----------------------------|-----------------------|---------|
| WLD-110 | Cutting Processes | 2 |
| WLD-115 | SMAW (Stick) Plate | 5 |
| WLD-121 | GMAW (MIG) FCAW/Plate | 4 |
| WLD-122 | GMAW (MIG) Plate/Pipe | 3 |
| Total Credit Hours Required | | 14 |

Associate in Engineering (AE) Degree (A10500)

The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. Admission to Engineering programs is highly competitive and admission is not guaranteed. To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.

Total Semester Hours Credit (SHC) in Program: 60-61. One semester hour of credit may be included in a 61 SHC Associate in Engineering program of study. The transfer of this hour is not guaranteed.

Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

General Education (42 Hours)

English Composition - 6 hours

ENG-111 Writing and Inquiry

ENG-112 Writing/Research in the Disc

Communication and Humanities/Fine Arts (Courses must be from two different categories) - 6 hours

Humanities

| ENG-231 | American Literature I |
|---------|------------------------|
| ENG-232 | American Literature II |
| ENG-241 | British Literature I |
| ENG-242 | British Literature II |
| PHI-215 | Philosophical Issues |
| PHI-240 | Introduction to Ethics |

Fine Arts and Communication

| ART-111 | Art Appreciation |
|----------|-----------------------|
| ART-114 | Art History Survey I |
| ART-115 | Art History Survey II |
| COM- 231 | Public Speaking |
| MUS-110 | Music Appreciation |
| MUS-112 | Introduction to Jazz |

Social / Behavioral Sciences - 6 hours Required:

ECO-251 Prin of Microeconomics

Choose One:

| HIS-111 | World Civilizations I |
|---------|---------------------------|
| HIS-112 | World Civilizations II |
| HIS-131 | American History I |
| HIS-132 | American History II |
| POL-120 | American Government |
| PSY-150 | General Psychology |
| SOC-210 | Introduction to Sociology |

Mathematics - 12 hours

Students who are not calculus-ready will need to take additional math courses.

| MAT-271 | Calculus I |
|---------|--------------|
| MAT-272 | Calculus II |
| MAT-273 | Calculus III |

Natural Sciences - 12 hours

| CHM-151 | General Chemistry I |
|---------|---------------------|
| PHY-251 | General Physics I |
| PHY-252 | General Physics II |

Other General Education Hours (3-4 hours)

| BIO-111 | ECO-252 |
|---------|---------|
| CHM-152 | GEL-111 |
| COM-110 | HUM-110 |
| COM-231 | PED-110 |

Other Required Hours (14-15 Hours)

Academic Transition

ACA-122 College Transfer Success

Pre-major Elective

EGR-150 Intro to Engineering

Other General Education and Pre-major Elective Hours

| BIO-111 | DFT-170 | EGR-228 |
|---------|---------|---------|
| CHM-152 | ECO-252 | GEL-111 |
| CHM-251 | EGR-210 | HUM-110 |
| CHM-252 | EGR-212 | MAT-280 |
| COM-110 | EGR-215 | MAT-285 |
| COM-231 | EGR-216 | PED-110 |
| CSC-134 | EGR-220 | |
| CSC-151 | EGR-225 | |
| | | |

The Associate in Engineering program is designed to be taken in the Fall and Spring semesters for transfer to Western Carolina University's Bachelor of Science in Engineering (BSE) with a concentration in Manufacturing or Mechanical. For Summer semesters and/or transfer to other universities, see your advisor.

Associate in Engineering - General Pathway

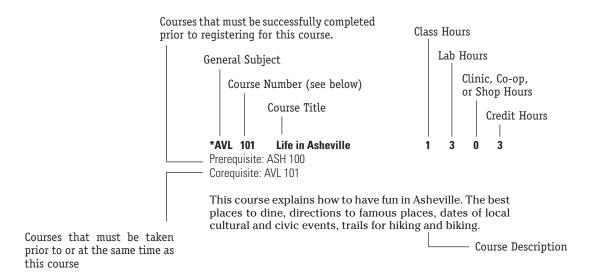
| | First Semeste | er (Fall) | Credits |
|-----------------------|---------------|------------------------------|---------|
| | ACA-122 | College Transfer Success | 1 |
| | CHM-151 | General Chemistry I | 4 |
| | EGR-150 | Introduction to Engineering | 2 |
| | ENG-111 | Writing and Inquiry | 3 |
| | MAT-271 | Calculus I | 4 |
| | | | |
| | Second Semo | ester (Spring) | |
| | DFT-170 | Engineering Graphics | 3 |
| | ENG-112 | Writing/Research in the Disc | 3 |
| | MAT-272 | Calculus II | 4 |
| | PHY-251 | General Physics I | 4 |
| Third Semester (Fall) | | | |
| | COM-231 | Public Speaking | 3 |
| | MAT-273 | Calculus III | 4 |
| | MAT-280 | Linear Algebra | 3 |
| | PHI-240 | Introduction to Ethics | 3 |
| | PHY-252 | General Physics II | 4 |
| | | | |

| Fourth Sen | nester (Spring) | | <u>Associate</u> | in Engineering - Civil Engineering F | Pathway |
|------------|---|--------------|------------------|--------------------------------------|---------|
| CSC-134 | C++ Programming | 3 | First Seme | ster (Fall) | Credits |
| ECO-251 | Prin of Microeconomics | 3 | ACA -122 | College Transfer Success | 1 |
| EGR-220 | Engineering Statics | 3 | CHM-151 | General Chemistry I | 4 |
| HIS-112 | World Civilizations II | 3 | EGR-150 | Introduction to Engineering | 2 |
| MAT-285 | Differential Equations | 3 | ENG-111 | Writing and Inquiry | 3 |
| | · | | MAT-271 | Calculus I | 4 |
| Associate | e in Engineering - Chemical Engi | neering | Second Se | mester (Spring) | |
| | to North Carolina State Universit | | ENG-112 | Writing/Research in the Disc | 3 |
| First Seme | | - Credits | MAT-272 | Calculus II | 4 |
| | | | PHY-251 | General Physics I | 4 |
| ACA-122 | College Transfer Success | 1 | DFT-170 | Engineering Graphics | 3 |
| CHM-151 | General Chemistry I | 4 | GEL-111 | Geology | 4 |
| EGR-150 | Introduction to Engineering | 2 | Third Seme | notor (Fall) | |
| ENG-111 | Writing and Inquiry | 3 | | | 2 |
| MAT-271 | Calculus I | | COM-231 | Public Speaking | 3 |
| Second Se | mester (Spring) | | MAT-273 | Calculus III | 4 |
| DFT-170 | Engineering Graphics | 3 | PHI-240 | Introduction to Ethics | 3 |
| ENG-112 | Writing/Research in the Disc | 3 | PHY-252 | General Physics II | 4 |
| MAT-272 | Calculus II | 4 | Fourth Sem | nester (Spring) | |
| PHY-251 | General Physics I | 4 | CSC-134 | C++ Programming | 3 |
| 20. | G. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | · | | (or HUM 110 Technology and Society) | |
| Third Sem | ester (Summer) | | ECO-251 | Prin of Microeconomics | 3 |
| CHM-152 | General Chemistry II | 4 | EGR-220 | Engineering Statics | 3 |
| Fourth Con | nester (Fall) | | HIS-112 | World Civilizations II | 3 |
| COM-231 | Public Speaking | 3 | MAT-285 | Differential Equations | 3 |
| MAT-273 | Calculus III | 4 | | · | |
| PHY-252 | General Physics II | 4 | | | |
| CHM-251 | Organic Chemistry I | 4 | | | |
| CHIVI-ZOI | Organic Chemistry i | 4 | | | |
| Fifth Seme | ster (Spring) | | | | |
| ECO-251 | Prin of Microeconomics | 3 | | | |
| HIS-112 | World Civilizations II | 3 | | | |
| CHM-252 | Organic Chemistry II | 4 | | | |
| PHI-240 | Introduction to Ethics | 3 | | | |

Course Descriptions

The following section contains descriptions of courses offered by Asheville-Buncombe Technical Community College. The following example explains each component of the course description entry.

When only three numbers are listed, the middle number always designates Lab Hours. Credit Hours are always the last number.



Course Numbers consist of three digits, and numbers are assigned as follows:

- The first digit indicates the year the course is normally taken. A first digit of "0" is used for Guided Studies courses.
- The second digit denotes the credential for which the course is intended:

100-109 and 200-209: Courses for stand-alone certificate and diploma programs.

110-189 and 210-289: Courses for associate degree programs;

these courses may also be used in certificate and diploma programs.

Please examine each course description before registering and determine if all prerequisites have been met. Prerequisites shown are those courses that must be successfully completed before attempting further study. In certain cases the department chairperson, or vice president of Instructional Services may waive some prerequisites.

*Credit by Examination is not available for courses marked with an asterisk because of the nature of the course and in some cases safety requirements in the use of equipment. Any exceptions must be with the approval of the department chairperson.

Course Descriptions

Course Descriptions

| ACA | Academic Related | |
|------------|--|-----|
| ACC | Accounting | 4 |
| AER | Aerospace and Flight Training | 5 |
| AGR | Agriculture | 3 |
| AHR | Air Conditioning, Heating, and Refrigeration | 3 |
| ALT | Alternative Energy Technology | |
| ARC | Architecture | |
| ART | Art | |
| AST | Astronomy 200 | |
| ATR | Automation & Robotics | |
| AUT | Automotive | |
| BDF | Brewing/Distillation/Fermentation | |
| BIO | Biology | - 1 |
| BPA | Baking and Pastry Arts | |
| BPR | Blueprint Reading | - |
| BUS | Business 200 | |
| CAB | | |
| | Cabinetmaking | |
| CEG | Civil Engineering and Geomatic | |
| CET | Computer Engineering Technology | |
| CHM | Chemistry | |
| CIS | Information Systems | - 1 |
| CIV | Civil Engineering | |
| CJC | Criminal Justice | - 1 |
| CMT | Construction Management | - 1 |
| COM | Communication | - 1 |
| COS | Cosmetology212 | |
| CSC | Computer Science | 3 |
| CST | Construction | |
| CTI | Computer Tech Integration214 | 4 |
| CTS | Computer Information Technology215 | 5 |
| CUL | Culinary | 5 |
| DBA | Database Management Technology21 | 7 |
| DDT | Developmental Disabilities21 | 7 |
| DEN | Dental21 | 7 |
| DFT | Drafting | - 1 |
| DME | Digital Media Technology | |
| ECO | Economics | |
| EDU | Education | |
| EGR | Engineering | - 1 |
| ELC | Electrical 22 | |
| ELN | Electronics 220 | - 1 |
| EMS | Emergency Medical Science | |
| FNG | English | |
| ENG EPT | ů – | - 1 |
| | Emergency Preparedness 230 Fire Protection 230 | |
| FIP | | |
| FRE | French | - 1 |
| FVP | Film and Video Production | |
| GEL | Geology | |
| GIS | Geographic Information Systems | |
| HEA | Health23 | |
| HET | Heavy Equipment Maintenance | |
| HFS | Health and Fitness Science232 | 2 |
| HIS | History | |
| HRM | Hotel & Restaurant Management233 | |
| HSE | Human Services 23 | |

| HUM | Humanities | |
|------------|-----------------------------------|-----|
| HYD | Hydraulics | |
| SC | Industrial Science | |
| .AR | Landscape Architecture Technology | |
| MAC | Machining | |
| MAT | Mathematics | |
| MEC | Mechanical | |
| MED | Medical Assisting | |
| MKT | Marketing and Retailing | |
| MLT | Medical Laboratory Technology | |
| MNT | Maintenance | |
| MUS | Music | |
| NET | Networking Technology | |
| VOS | Network Operating Systems | |
| NUR | Nursing | |
| DST | Office Systems Technology | |
| ATC | Occupational Therapy Assistant | |
| PBT | Phlebotomy | |
| PED PHI | Physical Education | |
| | Philosophy | |
| PHM | Pharmacy | |
| PHY | Physics | |
| PLA | Plastics | |
| POL | Political Science | |
| PSY PAD | Psychology | |
| AD RAD | Public Administration | |
| | Radiography | |
| SAB | Substance Abuse | |
| SEC | Information Systems Security | |
| 308 | Sociology | |
| SON | Medical Sonography | |
| SPA | Spanish | |
| SRV | Surveying | |
| SST | Sustainability Technologies | |
| SUR | Surgery | |
| rn r | Transportation Technology | |
| /ET | Veterinary Medicine | |
| NBL | Work-Based Learning | |
| NEB | Web Technologies | |
| NLD | Welding | 205 |

Academic Related

ACA-111 College Student Success

Prerequisites: None Corequisites: NUR-111

This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives.

ACA-115 Success & Study Skills

0 2

0 1

Prerequisites: None Corequisites: None

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

ACA-122 College Transfer Success

0 2 1

Prerequisites: None Corequisites: None

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Accounting

ACC-120 Prin of Financial Accounting

3 2

Prerequisites: None Corequisites: None

This course introduces business decision-making using accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

ACC-121 Prin of Managerial Accounting

3 2

Prerequisites: ACC-120 Corequisites: None

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product costing systems. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

ACC-129 Individual Income Taxes

2 2 3

Prerequisites: None Corequisites: None

This course introduces the relevant laws governing individual income taxation. Topics include tax law, electronic research and methodologies, and the use of technology for preparation of individual tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various individual tax forms.

ACC-130 Business Income Taxes

2 2 3

Prerequisites: ACC-129 Corequisites: None

This course introduces the relevant laws governing business and fiduciary income taxes. Topics include tax law relating to business organizations, electronic research and methodologies, and the use of technology for the preparation of business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various business tax forms.

ACC-140 Payroll Accounting

3 2

Prerequisites: ACC-115 or ACC-120

Corequisites: None

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology.

ACC-150 Accounting Software Appl

3 2

Prerequisites: ACC-115 or ACC-120

Corequisites: None

This course introduces microcomputer applications related to accounting systems. Topics include general ledger, accounts receivable, accounts payable, inventory, payroll, and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to accurately solve accounting problems.

ACC-180 Practices in Bookkeeping

3 0

Prerequisites: ACC-120 Corequisites: None

This course provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small businesses.

*ACC-220 Intermediate Accounting I

3 2 4

Prerequisites: ACC-120 Corequisites: None

This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and extensive analysis of balance sheet components. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards.

*ACC-269 Auditing & Assurance Services

Prerequisites: ACC-220 Corequisites: None

This course introduces selected topics pertaining to the objectives, theory and practices in engagements providing auditing and other assurance services. Topics will include planning, conducting and reporting, with emphasis on the related professional ethics and standards. Upon completion, students should be able to demonstrate an understanding of the types of professional services, the related professional standards, and engagement methodology.

Aerospace and Flight Training

*AER-110 Air Navigation

2 2 3

Prerequisites: None Corequisites: None

This course covers the basic elements of air navigation, fundamentals of pilotage and dead reckoning, and the use of a plotter, computer, and aerial charts. Topics include pilotage, dead reckoning, radio navigation, LORAN, Global Positioning Systems, and the use of FAA publications. Upon completion, students should be able to interpret aeronautical charts and apply navigational principles.

*AER-111 Aviation Meteorology

3 0 3

Prerequisites: None Corequisites: None

This course covers the atmosphere, interpretation and measurement of meteorological elements, and the effects of such on aircraft operations and performance. Topics include heat exchanges in the atmosphere; temperature, pressure, stability, clouds, air masses, fronts, and thunderstorms; and the use and interpretation of weather data. Upon completion, students should be able to analyze weather data for flight planning and safe flying.

*AER-112 Aviation Laws and FARs

2 0 2

Prerequisites: None Corequisites: None

This course provides an in-depth study of the state, federal, and international regulations forming the structure of aviation law. Emphasis is placed on Federal Aviation Regulations Parts 61, 91, and 135 with additional emphasis on legal issues in aviation law. Upon completion, students should be able to apply legal principles and interpret federal air regulations.

*AER-113 History of Aviation

2 0 2

Prerequisites: None Corequisites: None

This course provides a historical survey of the efforts of manned-flight. Topics include the development of aircraft, milestones in aviation, noted pioneers, and the socioeconomic impact of flight upon modern civilization. Upon completion, students should be able to demonstrate an understanding of the advancements that aviation has accrued for society and contemporary changes in aviation.

*AER-114 Aviation Management 3 0

Prerequisites: None Corequisites: None

This course covers operation of a flight department on a costeffective basis and analysis of profit and loss statements. Topics include flight operations costs, aircraft acquisition analysis and cost comparisons, costs versus revenue, and break-even points. Upon completion, students should be able to calculate cost of flight operations and apply monthly and annual budget analysis.

*AER-150 Private Pilot Flt Theory

Prerequisites: None Corequisites: None

This course covers the aeronautical knowledge required to meet the Federal Aviation Administration regulations for private pilot certification. Topics include the principles of flight, the flight environment, basic aircraft systems and performance, basic meteorology and weather data interpretation, and FAA regulations. Upon completion, students should be able to demonstrate the competencies required for the FAA written examination for a private pilot certificate.

*AER-151 Flight-Private Pilot

0 3 1

Prerequisites: None Corequisites: None

This course provides the hands-on training needed to qualify for a Federal Aviation Administration private pilot certificate. Topics include flight maneuvers (ground procedures, take-offs, climbs, level flight, turns, glides, stalls, slow flight, descents, slips, landings, emergency procedures) and cross-country planning and navigation. Upon completion, students should be able to demonstrate the competencies required for the flight test practical exam for the private pilot certificate.

*AER-160 Instrument Flight Theory

2 2 3

Prerequisites: None Corequisites: None

This course covers the required aeronautical knowledge of the Federal Aviation Administration Regulation Instrument Ground School. Topics include a study of instruments, systems, instrument flight charts, instrument flight planning, approach procedures, and the IFR regulations. Upon completion, students should be able to demonstrate the competencies required to complete the FAA written examination for an instrument rating.

*AER-161 Flight-Instrument Pilot

0 6

Prerequisites: AER-151 Corequisites: None

This course covers instruction and training in instrument flight planning including IFR navigation, VOR, ILS, ADF, and compliance with ATC procedures. Emphasis is placed on approach and navigation procedures, including holding and missed approaches, and development of skill in executing en route and approach procedures. Upon completion, students should be able to plan and execute an IFR flight and demonstrate competencies required for the FAA instrument pilot flight exam.

*AER-170 Commercial Flight Theory

3 0 3

Prerequisites: None Corequisites: None

This course covers advanced aircraft control, cross-country operations, and other topics required for the FAA commercial pilot written exam. Emphasis is placed on the principles of aircraft performance and operation, take-off performance, cruise performance, descent and landing performance, and weight and balance computations. Upon completion, students should be able to demonstrate commercial pilot skills and competence in the materials required for the FAA written commercial pilot examination.

*AER-171 Flight-Commercial Pilot

Prerequisites: AER-151 Corequisites: None

This course provides the hands-on training needed to qualify for a Federal Aviation Administration commercial pilot certificate. Topics include flight instruction in advanced precision maneuvers, maximum performance take-off and landings, emergency procedures, operation of complex aircraft, aircraft performance, and range and fuel planning. Upon completion, students should be able to demonstrate competence in the areas of the flight test practical exam for the commercial pilot certificate.

*AER-210 Flight Dynamics

Prerequisites: None Corequisites: None

This course covers basic and advanced principles of aerodynamic phenomena and fluid flow. Topics include airflow phenomena; lift/weight/thrust/drag; aircraft configuration characteristics, stability, and control; subsonic, transonic, and supersonic flight; critical Mach numbers; and the V-g Diagram. Upon completion, students should be able to explain the elements of applied aerodynamics and aeronautical engineering which relate directly to the problems of flight operations.

*AER-211 Air Traffic Control

Prerequisites: None Corequisites: None

This course provides a detailed analysis of all aspects of air traffic control. Emphasis is placed on an in-depth analysis of air traffic control, including utilization of the air traffic environment based on the pilot's and controller's perspective. Upon completion, students should be able to operate an aircraft within the national airspace system under FAA air traffic control.

*AER-215 Flight Safety

Prerequisites: None Corequisites: None

This course covers the basic procedures and practices of aircraft accident prevention, accident investigation, and reporting. Topics include a comprehensive review of federal regulations pertinent to aviation safety and analyses of actual aviation accident cases and their causes. Upon completion, students should be able to demonstrate an understanding and respect for specific personal factors such as attitude, motivation, and skill related to flight safety.

*AER-216 Engines & Systems

Prerequisites: None Corequisites: None

This course introduces piston and turbine aircraft engines and associated systems. Topics include aircraft hydraulic, pneumatic, electrical, air conditioning, and pressurization systems along with the theory of engine operations, including power and thrust computations. Upon completion, students should be able to apply principles of engine and systems operation.

*AER-217 Air Transportation

Prerequisites: None Corequisites: None

This course covers the development and present status of the air transportation system. Topics include federal legislation, characteristics and classification of air carriers, development of the air traffic control system, and the organization and function of the FAA. Upon completion, students should be able to relate the knowledge acquired to career development.

*AER-218 Human Factors in Aviation

Prerequisites: None Corequisites: None

6

0 3

2

2 2 3

0

This course analyzes interpersonal relationships in the cockpit and related psychological factors that affect pilot performance and efficiency during flight operations. Topics include cockpit management, judgment, aircraft and flight crew coordination and control, physiological factors, responsibility, and decision-making capabilities. Upon completion, students should be able to apply work-proven routines to stress management, crew responsibility, and the team concept in the cockpit.

Agriculture

AGR-267 Permaculture

2 2 3

Prerequisites: None Corequisites: None

This course introduces the design of sustainable human habitats as part of a sustainable system, with emphasis placed on living systems of the temperate region. Topics include fundamentals of permaculture system design for farms, including gardens, fields, water, animals, buildings, economics, and society. Upon completion, students should be able to design a functional holistic farm system.

Air Conditioning, Heating, and Refrigeration

*AHR-110 Intro to Refrigeration

6 5

Prerequisites: None Corequisites: None

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components, refrigeration cycle, and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instruments of the trade.

*AHR-111 HVACR Electricity

2 2 3

Prerequisites: None Corequisites: None

This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams.

*AHR-112 Heating Technology

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Prerequisites: None Corequisites: AHR-111

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system.

*AHR-113 Comfort Cooling

Prerequisites: AHR-110 Corequisites: None

This course covers the installation procedures, systems operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychometrics, manufacturer specifications, and test instruments to determine proper system operation.

*AHR-114 Heat Pump Technology

Prerequisites: AHR-110 or AHR-113

Corequisites: None

This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures.

*AHR-115 Refrigeration Systems

Prerequisites: AHR-110 Corequisites: None

This course introduces refrigeration systems and applications. Topics include defrost methods, safety and operational control, refrigerant piping, refrigerant recovery and charging, and leak testing. Upon completion, students should be able to assist in installing and testing refrigeration systems and perform simple repairs.

*AHR-120 HVACR Maintenance

Prerequisites: None Corequisites: None

This course introduces the basic principles of industrial air conditioning and heating systems. Emphasis is placed on preventive maintenance procedures for heating and cooling equipment and related components. Upon completion, students should be able to perform routine preventive maintenance tasks, maintain records, and assist in routine equipment repairs.

*AHR-130 HVAC Controls

Prerequisites: AHR-111 or ELC-111

Corequisites: None

This course covers the types of controls found in residential and commercial comfort systems. Topics include electrical and electronic controls, control schematics and diagrams, test instruments, and analysis and troubleshooting of electrical systems. Upon completion, students should be able to diagnose and repair common residential and commercial comfort systems controls.

AHR-160 Refrigerant Certification

Prerequisites: None Corequisites: AHR-110

This course covers the requirements for the EPA certification examinations. Topics include small appliances, high pressure systems, and low pressure systems. Upon completion, students should be able to demonstrate knowledge of refrigerants and be prepared for the EPA certification examinations.

AHR-170 Heating Lab

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Prerequisites: None Corequisites: AHR-112

This course provides a laboratory experience in heating technology. Emphasis is placed on providing practical experience in the fundamentals of heating. Upon completion, students should be able to demonstrate an understanding of electric, oil, and gas fueled heating systems.

AHR-171 Comfort Cooling Lab

0 3 1

Prerequisites: None Corequisites: AHR-113

This course provides a laboratory experience in comfort cooling. Emphasis is placed on providing practical experience in installation, operations, and maintenance of residential and light commercial comfort cooling systems. Upon completion, students should be able to demonstrate an understanding of comfort cooling systems.

AHR-172 Heat Pump Lab

0 3 1

Prerequisites: None Corequisites: AHR-114

This course provides a laboratory experience in heat pump technology. Emphasis is placed on providing practical experience with air source and water heat pumps. Upon completion, students should be able to demonstrate an understanding of heat pump year-round comfort systems.

*AHR-211 Residential System Design

2 3

Prerequisites: AHR-112 or AHR-113

Corequisites: None

This course introduces the principles and concepts of conventional residential heating and cooling system design. Topics include heating and cooling load estimating, basic psychometrics, equipment selection, duct system selection, and system design. Upon completion, students should be able to design a basic residential heating and cooling system.

*AHR-212 Advanced Comfort Systems

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Prerequisites: AHR-114 Corequisites: None

This course covers water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pump systems including variable speed drives and controls. Emphasis is placed on the application, installation, and servicing of water-source systems and the mechanical and electronic control components of advanced comfort systems. Upon completion, students should be able to test, analyze, and troubleshoot water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps. Hydronic (hot water) and steam heating systems will also be studied.

AHR-213 HVACR Building Code

1 2 2

Prerequisites: AHR-112 or AHR-113

Corequisites: None

This course covers the North Carolina codes that are applicable to the design and installation of HVACR systems. Topics include current North Carolina codes as applied to HVACR design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of North Carolina codes that apply to specific areas of the HVACR trade.

Alternative Energy Technology

ALT-120 Renewable Energy Tech 2 2

Prerequisites: None Corequisites: None

This course provides an introduction to multiple technologies that allow for the production and conservation of energy from renewable sources. Topics include hydro-electric, wind power, passive and active solar energy, tidal energy, appropriate building techniques, and energy conservation methods. Upon completion, students should be able to demonstrate an understanding of renewable energy production and its impact on humans and their environment.

Architecture

ARC-111 Intro to Arch Technology

Prerequisites: None Corequisites: None

This course introduces basic architectural drafting techniques, lettering, use of architectural and engineer scales, and sketching. Topics include orthographic, axonometric, and oblique drawing techniques using architectural plans, elevations, sections, and details, reprographic techniques, and other related topics. Upon completion, students should be able to prepare and print scaled drawings within minimum architectural standards.

ARC-112 Constr Matls & Methods

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Prerequisites: None Corequisites: None

This course introduces construction materials and methodologies. Topics include construction terminology, traditional and alternative materials and their properties, manufacturing processes, construction techniques, and other related topics. Upon completion, students should be able to detail construction assemblies and identify construction materials and properties.

*ARC-113 Residential Arch Tech

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Prerequisites: ARC-111 and DFT-151

Corequisites: ARC-112

This course covers intermediate residential working drawings. Topics include residential plans, elevations, sections, details, schedules, and other related topics. Upon completion, students should be able to prepare a set of residential working drawings that are within accepted architectural standards.

ARC-131 Building Codes

2 2 3

Prerequisites: ARC-112 Corequisites: None

This course covers the methods of researching building codes for specific projects. Topics include residential and commercial building codes. Upon completion, students should be able to determine the code constraints governing residential and commercial projects.

*ARC-230 Environmental Systems

3 3

Prerequisites: Take One Set

Set 1: ARC-111, DFT-151, and MAT-121 Set 2: ARC-111, DFT-151, and MAT-171

Corequisites: None

This course introduces plumbing, mechanical (HVAC), and electrical systems for the architectural environment. Topics include basic plumbing, mechanical, and electrical systems for residential and/or commercial buildings with an introduction to selected code requirements. Upon completion, students should be able to perform related calculations.

ARC-261 Solar Technology

2 2

Prerequisites: ARC-111 Corequisites: None

This course introduces passive and active solar design theory and application. Topics include passive solar design, active solar theory, heat loss analysis, and other related topics. Upon completion, students should be able to design a passive solar system.

Art

ART-111 Art Appreciation

0 3

Prerequisites: None Corequisites: None

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

ART-114 Art History Survey I

3 0 3

Prerequisites: None Corequisites: None

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

ART-115 Art History Survey II

3 0 3

Prerequisites: None Corequisites: None

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

ART-121 Two-Dimensional Design

0 6 3

Prerequisites: None Corequisites: None

This course introduces the elements and principles of design as applied to two-dimensional art. Emphasis is placed on the structural elements, the principles of visual organization, and the theories of color mixing and interaction. Upon completion, students should be able to understand and use critical and analytical approaches as they apply to two-dimensional visual art. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-122 Three-Dimensional Design

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Prerequisites: None Corequisites: None

This course introduces basic studio problems in three-dimensional visual design. Emphasis is placed on the structural elements and organizational principles as applied to mass and space. Upon completion, students should be able to apply three-dimensional design concepts. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-131 Drawing I

Prerequisites: None Corequisites: None

This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-171 Digital Design I

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Prerequisites: None Corequisites: None

This course is designed to introduce students to the elements and principles of design through the use of digital software. Emphasis is placed on developing composition and design skills using vector, raster, and time-based media. Upon completion, students should be able to identify and use tools in digital software, understand and utilize digital and artistic vocabulary, and employ the principles and elements of design to create artwork using digital means. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-214 Portfolio and Resume

0 2 1

Prerequisites: None Corequisites: None

This course covers resume writing, interview skills, and the preparation and presentation of an art portfolio. Emphasis is placed on the preparation of a portfolio of original artwork, the preparation of a photographic portfolio, approaches to resume writing, and interview techniques. Upon completion, students should be able to mount original art for portfolio presentation, photograph and display a professional slide portfolio, and write an effective resume. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-231 Printmaking I

0 6

Prerequisites: None Corequisites: None

This course introduces printmaking: its history, development techniques, and processes. Emphasis is placed on basic applications with investigation into image source and development. Upon completion, students should be able to produce printed images utilizing a variety of methods. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-240 Painting I

0 6

Prerequisites: C or better in ART-121 or ART-131 or Department Chair approval

Corequisites: None

This course introduces the language of painting and the use of various painting materials. Emphasis is placed on the understanding and use of various painting techniques, media, and color principles. Upon completion, students should be able to demonstrate competence in the use of creative processes directed toward the development of expressive form. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-244 Watercolor

0 6

Prerequisites: C or better in ART-121 or ART-131 or Department Chair approval

Corequisites: None

This course introduces basic methods and techniques used in watercolor. Emphasis is placed on application, materials, content, and individual expression. Upon completion, students should be able to demonstrate a variety of traditional anotraditional concepts used in watercolor media. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-261 Photography I

Prerequisites: None Corequisites: None

This course introduces photographic equipment, theory, and processes. Emphasis is placed on camera operation, composition, darkroom technique, and creative expression. Upon completion, students should be able to successfully expose, develop, and print a well-conceived composition. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-264 Digital Photography I

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Prerequisites: None Corequisites: None

This course introduces digital photographic equipment, theory and processes. Emphasis is placed on camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-266 Videography I

0 6 3

Prerequisites: None Corequisites: None

This course introduces various aspects of basic video production including concept development, scripting, camera operation, and post-production. Emphasis is placed on creative expression, camera handling, story boarding and editing. Upon completion, students should be able to demonstrate a basic understanding of video camera operation and production techniques. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-267 Videography II

0 6

Prerequisites: C or better in ART-266

Corequisites: None

This course is designed to provide a framework for the production of a long-term video project. Emphasis is placed on realization of the unique creative vision. Upon completion, students should be able to produce a thematically coherent, edited video with sound and titling. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-275 Introduction to Graphic Design

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Prerequisites: None Corequisites: None

This course introduces students to the field of graphic design. Emphasis is placed on the basic concepts of visual communication, the design process and the ability to evaluate and discuss design issues in a critical manner. Upon completion, students will be able to use contemporary design software and visual language techniques as they apply to creative visual problem-solving involving typography, image manipulation, symbolic representation and page management while being responsive to the relationship between client, designer and audience. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

Course Descriptions

ART-276 Interactive Media Design

Prerequisites: None Corequisites: None

Interactive Media Design introduces students to the concepts and techniques used in designing and producing interactive projects. Emphasis is placed on the interactive development process, aesthetics of visual solutions, technical proficiency, and graphical user interface (GUI) with projects including digital imaging, web design, simple animation, graphics and copyright issues. Upon completion students should be able to use contemporary software to solve a variety of multimedia problems for a range of platforms and devices that may include web-based interaction, mobile devices or other emerging technology. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-281 Sculpture I

Prerequisites: None Corequisites: None

This course provides an exploration of the creative and technical methods of sculpture with focus on the traditional processes. Emphasis is placed on developing basic skills as they pertain to three-dimensional expression in various media. Upon completion, students should be able to show competence in a variety of sculptural approaches. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-283 Ceramics I

Prerequisites: None Corequisites: None

This course provides an introduction to three-dimensional design principles using the medium of clay. Emphasis is placed on fundamentals of forming, surface design, glaze application, and firing. Upon completion, students should be able to demonstrate skills in slab and coil construction, simple wheel forms, glaze technique, and creative expression. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

ART-284 Ceramics II

Prerequisites: C or better in ART 283

Corequisites: None

This course covers advanced hand building and wheel techniques. Emphasis is placed on creative expression, surface design, sculptural quality, and glaze effect. Upon completion, students should be able to demonstrate a high level of technical competence in forming and glazing with a development of three-dimensional awareness. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

Astronomy

AST-111 Descriptive Astronomy

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Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: AST-111A

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associate of Arts Degree.

AST-111A Descriptive Astronomy Lab

Prerequisites: None Corequisites: AST-111

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The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associate of Arts Degree.

Automation & Robotics

*ATR-112 Intro to Automation

2 3 3

Prerequisites: None Corequisites: None

This course introduces the basic principles of automated manufacturing and describes the tasks that technicians perform on the job. Topics include the history, development, and current applications of robots and automated systems including their configuration, operation, components, and controls. Upon completion, students should be able to understand the basic concepts of automation and robotic systems.

*ATR-212 Industrial Robots

2 3 3

Prerequisites: ATR-112 Corequisites: None Available: As needed

This course covers the operation of advanced industrial robots. Topics include the classification of robots, activators, grippers, work envelopes, computer interfaces, overlapping work envelopes, installation, and programming. Upon completion, students should be able to install, program, and troubleshoot industrial robots.

Automotive

*AUT-116 Engine Repair

2 3

Prerequisites: None Corequisites: AUT-116A

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement, and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

*AUT-116A Engine Repair Lab

0 3 1

Prerequisites: None Corequisites: AUT-116

This course is an optional lab to be used as an alternative to coop placement in meeting the NATEF standards for total hours. Topics include diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement, and repair of automotive engines using appropriate tools, equipment, procedures, and service information.

*AUT-141 Suspension & Steering Sys

Prerequisites: None Corequisites: AUT-141A

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

*AUT-141A Suspension and Steering Lab

Prerequisites: None Corequisites: AUT-141

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

*AUT-151 Brake Systems

Prerequisites: None Corequisites: AUT-151A

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

*AUT-151A Brake Systems Lab

Prerequisites: None Corequisites: AUT-151

This course is an optional lab to be used as an alternative to coop placement in meeting the NATEF standards for total hours. Topics Include drum and disc brakes involving hydraulic, vacuum-boost, hydra-boost, electrically powered boost, and anti-lock parking brake systems and emergency brake systems technologies. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

*AUT-181 Engine Performance 1

Prerequisites: None Corequisites: None

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion students should be able to describe operation of and diagnose/repair basic ignition, fuel and emission related drivability problems using appropriate test equipment and service information.

*AUT-221 Auto Transm/Transaxles

Prerequisites: None Corequisites: AUT-221A

This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair automatic drive trains.

*AUT-221A Auto Transm/Transax Lab

Prerequisites: None Corequisites: AUT-221

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This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to diagnose and repair automatic drive trains.

*AUT-231 Man Trans/Axles/Drtrains

2 3 3

Prerequisites: None Corequisites: AUT-231A

This course covers the operation, diagnosis, and repair of manual transmissions/transaxles, clutches, drive shafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train servicing and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair manual drive trains.

*AUT-231A Man Trans/Ax/Drtrains Lab

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Prerequisites: None Corequisites: AUT-231

This course is an optional lab for the program that needs to meet NATEF hour standards, but does not have a co-op component in the program. Topics include manual drive train diagnosis, service and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to diagnose and repair manual drive trains.

*AUT-281 Adv Engine Performance

2 2 3

Prerequisites: None Corequisites: None

This course utilizes service information and specialized test equipment to diagnose and repair power train control systems. Topics include computerized ignition, fuel and emission systems, related diagnostic tools and equipment, data communication networks, and service information. Upon completion, students should be able to perform diagnosis and repair.

Brewing/Distillation/Fermentation

*BDF-110 Fermentation Production

2 4 4

Prerequisites: BDF-114 Corequisites: None

This course introduces the basic methodologies used in fermentation. Emphasis is placed on the production of fermented products including ingredients, techniques, fermentation management, storage and sanitation. Upon completion, students should be able to design/produce pilot-scale products to demonstrate how material selection and process conditions can generate different kinds/qualities of products.

*BDF-111 BDF Safety & Sanitation

1 2 2

Prerequisites: None Corequisites: None

This course covers sanitation, handling and safety with fermentation products, facilities and equipment. Emphasis is placed on the proper chemicals, their selection, handling and storage for sanitation control within the fermentation environment. Upon completion, students should be able to safely maintain quality and stability of fermentation products. This course will include industry relevant OSHA and forklift certification training.

*BDF-114 Craft Beer Brewing

Prerequisites: None Corequisites: None

This course introduces entry level skills in craft beer brewing. Topics include recipe development, basic sanitation, techniques and equipment used in the production of small batches (5 gallon or less) of craft beer. Upon completion, students should be able to demonstrate how to produce small batches of craft beer and be able to extrapolate concepts to larger future production.

*BDF-115 Applied Craft Bev Microbiology

3 2 4

1 3 2

Prerequisites: None Corequisites: None

This course provides an introduction to microbiology and laboratory practices in the brewing industry. Emphasis is placed on yeast biology, fermentation and microorganisms in brewery/distillation and sanitation. Upon completion, students should be able to demonstrate an understanding of microbiology, laboratory techniques, and commonly used analysis methodologies applied in the brewing industry.

*BDF-125 Bev Tech & Calculations

1 3 2

Prerequisites: None

Corequisites: BDF-111, BDF-114

This course introduces technology and mathematical calculations used in craft beverage production. Emphasis is placed on equipment and technology relating to scheduling/record keeping, and recipe development/alcohol control and ingredient usage calculations. Upon completion, students should be able to identify/demonstrate technology and equipment used in craft beverage production and recipe development.

*BDF-150 Craft Bev Lab Methods

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Prerequisites: None Corequisites: None

This course covers the operation of laboratory equipment and basic laboratory techniques which are used in the craft beverage laboratory setting. Emphasis is placed on hands-on use and applications of basic craft beverage laboratory techniques including calibrating, troubleshooting, record keeping, measurement, and laboratory procedure development. Upon completion, students should be able to properly operate and maintain basic laboratory equipment and be able to prepare and test samples in the completion of individual and team projects.

*BDF-170 Bev Tour & Tasting Mgmt

Prerequisites: None Corequisites: None

This course covers the role of craft beverage as a destination attraction. Emphasis is placed on developing, marketing and managing the craft beverage experience including customer service, special events, and tasting room operations. Upon completion, students should be able to demonstrate tasting room management for craft beverages and its application to tourism and economic development.

*BDF-175 Distillation Operations

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Prerequisites: BDF-230, BDF-250

Corequisites: None

This course covers the principles and production techniques involved in the distillation of grains, fruits and other carbohydrates associated with craft beverage distillation. Emphasis is placed on materials/processing, fermentation applications, distillation technology, sensory evaluation, quality control, engineering, and craft distillery management. Upon completion, students should be able to demonstrate an understanding of distillation operation/management and the impact of sanitation, fermentation, maturation and aging in the production of distillations.

*BDF-180 Sensory Evaluation

2 2 3

Prerequisites: None Corequisites: None

This course introduces the visual, olfactory and gustatory parameters used in the evaluation of beer and distillery products. Emphasis is placed on aromas, finish, flavor/taste interactions and factors affecting product quality, as well as descriptive analysis/model systems, judging systems, set-up and operation for beverage competitions. Upon completion, students should be able to demonstrate the fundamental principles/practices in sensory analysis and identify elements that influence sensory qualities of particular craft beverages.

*BDF-215 Legal Issues-Fermentation

3 0 3

Prerequisites: None Corequisites: None

This course covers the laws and regulatory environment particular to the brewing, distillation and fermentation industry. Emphasis is placed on social/ethical responsibilities and the state/federal regulations including licensing, taxation, labeling, record keeping, permits, inspections and laws regarding interstate and international commerce. Upon completion, students should be able to demonstrate an understanding of the laws and regulations that influence the brewing, distillation and fermentation industry.

*BDF-220 Applied Craft Bev Chemistry

3 2 4

Prerequisites: None Corequisites: None

This course introduces chemistry fundamentals as they apply to the brewing and distillation industry. Emphasis is placed on elements impacting brewing/distillation including ingredient analysis/fermentation/production chemicals, and properties of gasses/liquids, pH, and pressure. Upon completion, students should be able to demonstrate basic chemistry principles/laboratory techniques to assess/control chemical properties associated with major products of the alcoholic beverage industry.

*BDF-230 Advanced Brewing

2 2 3

Prerequisites: BDF-110, BDF-111, BDF-114, BDF-115

Corequisites: BDF-250

This course covers advanced brewing processes utilizing the equipment of an on-site brewery and fermentation facility. Topics include advanced beer making processes, analysis/monitoring of fermentation, specialty beer production, quality control, sustainable practices and facilities operations and management. Upon completion, students should be able to understand and demonstrate the proper applications of high volume brewing in a production facility.

Course Descriptions

*BDF-230A Advanced Brewing Lab

Prerequisites: BDF-110, BDF-111, BDF-114, BDF-115

Corequisites: BDF-230, BDF-250

This course provides additional laboratory experience for enhancing student skills in advanced brewing processes utilizing the equipment of an on-site brewery and fermentation facility. Topics include advanced beer making processes, analysis/monitoring of fermentation, specialty beer production, quality control, sustainable practices and facilities operations and management. Upon completion, students should be able to demonstrate the proper applications of high volume brewing in a production facility.

*BDF-240 Seasonal Beer Production

2 4 4

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Prerequisites: BDF-230, BDF-250

Corequisites: None

This course covers the brewing of seasonal and specialty beers using advanced brewing techniques. Topics include original recipe development, lab analysis, production techniques and packaging. Upon completion, students should be able to develop original recipes for seasonal and specialty beers, and provide analysis, production and packaging.

*BDF-250 BDF Packaging & Materials

2 3 3

Prerequisites: None Corequisites: BDF-230

This course covers the practices associated with packaging including canning, bottling, box presentations and kegging of beer and distilled products. Emphasis is placed on techniques related to expansion of the product shelf life which may include container selection, temperature/light control, and labeling, capping, and sealing options. Upon completion, students should be able to demonstrate and perform practical operations critical to packaging.

*BDF-261 Bev Marketing & Sales

3 0 3

Prerequisites None Corequisites: None

This course covers the planning and resources required to market grains/hops/fruit and brewed or distilled products. Emphasis is placed on the nature of the craft beverage market including industry/consumer trends, economic, legal, and social considerations related to branding, pricing, promotion, and distribution. Upon completion, students should be able to demonstrate a basic proficiency of the marketing principles and practices for craft beverages and the grains/hops/fruit from which they are produced.

*BDF-270 Craft Beverage Business Lab

0 6 2

Prerequisites: BDF-110 and BDF-111

Corequisites: BDF-115

This course covers concepts of management, production, marketing and economics through hands-on experience in an on-site brewery/fermentation facility. Topics include management/control systems, marketing/distribution and product development/evaluation. Upon completion, students should be able to craft and market fermented beverages using appropriate management and production techniques.

Biology

BIO-110 Principles of Biology

3 3 4

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in

ENG-110 or ENG-111 Corequisites: None

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, taxonomy, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences.

BIO-111 General Biology I

3 4

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111: DMA-010-030 or MAT-003 Tier 1

Corequisites: None

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, evolution, classification, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences.

BIO-112 General Biology II

3 3 4

Prerequisites: C or better in BIO-111

Corequisites: None

This course is a continuation of BIO-111. Emphasis is placed on organisms, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associate of Science Degree.

BIO-120 Introductory Botany

3 3 4

Prerequisites: C or better in BIO-110 or BIO-111

Corequisites: None

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants. This course has been approved for transfer under the CAA as a general education course in Natural Science.

BIO-130 Introductory Zoology

3 3 4

Prerequisites: C or better in BIO-110 or BIO-111

Corequisites: None

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups. This course has been approved for transfer under the CAA as a general education course in Natural Science.

BIO-140 Environmental Biology

0

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in

ENG-110 or ENG-111 Corequisites: BIO-140A

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. This course has been approved for transfer under the CAA as a general education course in Natural Science.

BIO-140A Environmental Biology Lab

3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: BIO-140

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. This course has been approved for transfer under the CAA as a general education course in Natural Science.

BIO-155 Nutrition

0 3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in

ENG-110 or ENG-111 Corequisites: None

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs. Topics include cultural, religious, and economic factors that influence a person's acceptance of food, as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

BIO-161 Intro to Human Biology

0

3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in

ENG-110 or ENG-111 Corequisites: None

This course provides a basic survey of human biology. Emphasis is placed on the basic structure and function of body systems and the medical terminology used to describe normal and pathological states. Upon completion, students should be able to demonstrate an understanding of normal anatomy and physiology and the appropriate use of medical terminology.

BIO-163 Basic Anat and Physiology

2 5

Prerequisites: DMA-010-030 or MAT-003 Tier 1 and DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. This course has been approved for transfer under the CAA as a premajor and/ or elective course requirement.

BIO-168 Anatomy and Physiology I

Prerequisites: DMA-010-030 or MAT-003 Tier 1 and DRE-097, DRE-098,

ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems, and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

BIO-169 Anatomy and Physiology II

3

Prerequisites: C or better in BIO-168

Corequisites: None

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

BIO-175 **General Microbiology**

2 2 3

Prerequisites: C or better in BIO-110, BIO-111, BIO-163, BIO-165 or BIO-168

Corequisites: None

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Microbiology BIO-275

Prerequisites: C or better in BIO-110, BIO-111, BIO-163, BIO-165 or BIO-168

Corequisites: None

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Baking and Pastry Arts

*BPA-120 Petit Fours & Pastries

1 4

Prerequisites: CUL-110 and CUL-160

Corequisites: None

This course introduces the basic principles of the preparation and plating of a variety of petit fours and individual dessert pastries. Emphasis is placed on traditional and contemporary petit fours and pastries utilizing updated production methods. Upon completion, students should be able to produce individual pastries and petit fours for buffet and special event settings.

*BPA-130 European Cakes and Tortes

1 4 3

Prerequisites: CUL-110 and CUL-160

Corequisites: None

This course introduces the production of a wide variety of classical and modern cakes suitable for restaurants, retail shops and large-scale production. Emphasis is placed on classic cakes using the methods of mixing, filling, glazing and icing. Upon completion, students should be able to prepare, assemble and decorate gelatin-based and layered tortes and cakes such as Bavarian, Dobos, and Sacher.

*BPA-150 Artisan & Specialty Bread

1 6 4

Prerequisites: CUL-110 and CUL-160

Corequisites: None

This course provides an advanced study in the art and craft of bread making. Topics include pertinent formulas and techniques associated with naturally leavened loaves, hearth breads, focaccia, flat breads, and other breads utilizing a variety of grains. Upon completion, students should be able to prepare artisan and specialty breads that meet or exceed the expectations of restaurant and retail publics.

*BPA-210 Cake Design & Decorating

1 4 3

Prerequisites: CUL-110, CUL-150, and CUL-160

Corequisites: BPA-240 and BPA-250

This course covers advanced concepts in the design and decoration of wedding cakes and other specialty cakes. Topics include baking, filling and assembling cakes; cake design; finishing techniques utilizing gum paste, fondant, and royal icing; and advanced piping skills. Upon completion, students should be able to design, create, finish and evaluate the quality of wedding and specialty cakes.

*BPA-220 Confection Artistry

1 6 4

Prerequisites: BPA-210, BPA-240, BPA-250, CUL-110, and CUL-160

Coreguisites: BPA-230 and BPA-260

This course introduces the principles and techniques of decorative sugar work and confectionary candy. Topics include nougat, marzipan modeling, pastillage and cocoa painting, confection candy and a variety of sugar techniques including blown, spun, poured and pulled. Upon completion, students should be able to prepare edible centerpieces and confections to enhance dessert buffets and plate presentations.

*BPA-230 Chocolate Artistry

1 4 3

Prerequisites: BPA-210, BPA-240, BPA-250, CUL-110, and CUL-160

Corequisites: BPA-220 and BPA-260

This course provides a study in the art and craft of chocolate. Topics include chocolate tempering, piping, and molding; decorative work associated with cakes and centerpieces; and the candy production techniques of filling, enrobing and dipping. Upon completion, students should be able to properly evaluate tempered chocolate, and produce a variety of chocolate candies and decorative elements for garnishing desserts.

*BPA-240 Plated Desserts

4 3

Prerequisites: BPA-120, BPA-130, BPA-150, CUL-110, CUL-160, and

WBL-112

Corequisites: BPA-210 and BPA-250

This course provides a study in the elements and principles of design as they relate to plated desserts. Topics include plate composition, portioning, flavor pairings, textures, temperatures, eye appeal, balance, color harmony and plate decorating/painting techniques such as stenciling and chocolate striping. Upon completion, students should be able to demonstrate competence in combining a variety of dessert components enhanced with plate decorating techniques.

*BPA-250 Dessert/Bread Production

8 5

Prerequisites: BPA-150, CUL-110, CUL-150, CUL-160 and WBL-112

Corequisites: BPA-210 and BPA-240

This course is designed to merge artistry and innovation with the practical baking and pastry techniques utilized in a production setting. Emphasis is placed on quantity bread and roll-in dough production, plated and platter presentations, seasonal/theme product utilization and cost effectiveness. Upon completion, students should be able to plan, prepare and evaluate breads and desserts within a commercial environment and determine production costs and selling prices.

*BPA-260 Pastry & Baking Marketing

2 2 3

Prerequisites: BPA-150, BPA-210, BPA-240, and WBL-112

Corequisites: BPA-220 and BPA-230, and BPA-250

This course is designed to cover the marketing concepts and merchandising trends utilized in bakery and pastry operations. Emphasis is placed on menu planning, pricing products/strategies, resale and wholesale distribution methods, legal implications, and advertising techniques. Upon completion, students should be able to create a marketing plan that will serve as a basis for a capstone experience.

Blueprint Reading

BPR-111 Print Reading

1 2

Prerequisites: None Corequisites: None

This course introduces the basic principles of blueprint reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic blueprints and visualize the features of a part.

BPR-121 Blueprint Reading-Mech

1 2 2

Prerequisites: BPR-111 or MAC-131

Corequisites: None

This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

BPR-130 Print Reading-Construction

3 0 3

Prerequisites: None Corequisites: None

This course covers the interpretation of prints and specifications that are associated with design and construction projects. Topics include interpretation of documents for foundations, floor plans, elevations, and related topics. Upon completion, students should be able to read and interpret construction prints and documents.

Business

BUS-110 Introduction to Business 3 0

Prerequisites: None Corequisites: None

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

BUS-115 Business Law I

3 0

3

Prerequisites: None Corequisites: None

This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

BUS-116 Business Law II

3 0 3

Prerequisites: BUS-115 Corequisites: None

This course includes the study of the legal and ethical framework of business. Business Organizations, property law, intellectual property law, agency and employment law, consumer law, secured transactions, and bankruptcy are examined. Upon completion, the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them.

BUS-125 Personal Finance

3 0 3

0 3

Prerequisites: DMA-050 Corequisites: None

This course provides a study of individual and family financial decisions. Emphasis is placed on building useful skills in buying, managing finances, increasing resources, and coping with current economic conditions. Upon completion, students should be able to develop a personal financial plan.

BUS-137 Principles of Management

Prerequisites: None Corequisites: None

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. This course has been approved for transfer under the CAA as a premajor and/ or elective course requirement.

BUS-139 Entrepreneurship I

3 0 3

Prerequisites: None Corequisites: None

This course provides an introduction to the principles of entrepreneurship. Topics include self-analysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs.

BUS-147 Business Insurance

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Prerequisites: None Corequisites: None

This course surveys the basic concepts of risk management. Topics include principles and applications of health, property, life, and casualty insurance. Upon completion, students should be able to evaluate different insurance needs and assist an organization in acquiring adequate insurance coverage.

BUS-153 Human Resource Management

0 3

Prerequisites: None Corequisites: None

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

BUS-225 Business Finance

2 2 3

Prerequisites: ACC-120 Corequisites: None

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management.

*BUS-239 Bus Applications Seminar

2 2

Prerequisites: Take One Set:

Set 1: ACC-120, BUS-115, BUS-137, MKT-120, and ECO-151 Set 2: ACC-120, BUS-115, BUS-137, MKT-120, and ECO-251 Set 3: ACC-120, BUS-115, BUS-137, MKT-120, and ECO-252

Corequisites: None

This course is designed as a capstone course for Business Administration majors. Emphasis is placed on decision making in the areas of management, marketing, production, purchasing, and finance. Upon completion, students should be able to apply the techniques, processes, and vital professional skills needed in the work place.

BUS-270 Professional Development

0 3

Prerequisites: None Corequisites: None

This course provides basic knowledge of self-improvement techniques as related to success in the professional world. Topics include positive human relations, job-seeking skills, and projecting positive self-image. Upon completion, students should be able to demonstrate competent personal and professional skills necessary to get and keep a job.

Cabinetmaking

CAB-119 Cabinetry/Millworking

19

Prerequisites: None Corequisites: None

This course introduces wood technology, cabinet construction, and millworking. Topics include safety, hand/power tools, wood identification and use, wood joinery, abrasives, cabinet layout, laminates, finishing techniques, and other related topics. Upon completion, students should be able to select and process materials using accurate drawings and cut lists and install finished products.

Course Descriptions

Civil Engineering and Geomatics

CEG-111 Intro to GIS and GNSS

2 4

Prerequisites: None Corequisites: None

This course introduces the methods and techniques used in the Geographic Information Systems (GIS) and Global Navigation Satellite Systems (GNSS) professions. Emphasis is placed on data collection and mapping using GIS software. Upon completion, students should be able to use GNSS technologies to collect field data and create GIS maps.

CEG-115 Intro to Tech & Sustainability

2 3 3

Prerequisites: None Corequisites: None

This course introduces basic skills, sustainability concepts and career fields for technicians. Topics include career options, technical vocabulary, dimensional analysis, measurement systems, engineering graphics, professional ethics, and related topics. Upon completion, students should be able to identify drawing elements and create sketches, perform basic engineering computations, and identify measures of sustainable development.

*CEG-210 Construction Mtls & Methods

2 3 3

Prerequisites: None Corequisites: None

This course covers the behavior and properties of Portland cement, asphaltic concretes, and other construction materials, including construction methods and equipment. Topics include cementing agents, aggregates, water and admixture materials with their proportions, production, placement, consolidation, curing; and their inspection. Upon completion, students should be able to proportion Portland concrete mixes to attain predetermined strengths, perform standard control tests on Portland cement concrete, identify inspection criteria for concretes, and identify construction equipment and applications.

CEG-211 Hydrology & Erosion Control

2 3 3

Prerequisites: Take One Set

Set 1: DMA-060, DMA-070, and DMA-080

Set 2: DMA-065 Set 3: MAT-121 Set 4: MAT-171 Set 4: MAT-003 Corequisites: None

This course introduces basic engineering principles and characteristics of hydrology, erosion and sediment control. Topics include stormwater runoff, gravity pipe flow, open channel flow, low impact development (LID), erosion control devices and practices. Upon completion, students should be able to analyze and design gravitational drainage structures, identify LID and erosion control elements, and prepare a stormwater drainage plan.

CEG-212 Intro to Environmental Tech

2 3 3

Prerequisites Take One: EGR 250, EGR 251, or MEC 210

Corequisites: None

This course introduces basic engineering principles of hydraulics, and water and wastewater technologies. Topics include fluid statics, fluid dynamics, flow measurement, the collection, treatment, and distribution of water and wastewater. Upon completion, students should be able to identify water and wastewater system elements, describe water and wastewater system processes, and perform basic hydraulics and treatment computations.

*CEG-230 Subdivision Planning & Design

1 6 3

Prerequisites Take One Course from Each Set:

SET 1: CEG-151, DFT-151, or EGR-120

SET 2: CEG-211

SET 3: SRV-111 or CIV-215

Corequisites: None

This course covers the planning and design concepts related to subdivisions including analysis of development standards, engineering, and the creation of CAD drawings. Topics include applicable codes, lot creation, roadway system layout, storm water drainage, low impact development (LID) concepts, and related topics. Upon completion, students should be able to prepare a set of subdivision plans.

CEG-235 Project Management/Estimating

2 3 3

Prerequisites Take One: CEG-115, CIS-110, CIS-111, EGR-115, or EGR-125 Corequisites: None

This course covers planning and estimating practices which are applicable to the civil engineering and related construction industries. Emphasis is placed on construction project planning and management, material take-offs labor and equipment requirements in accordance with industry formats, and other economic topics. Upon completion, students should be able to accurately complete material take-offs, prepare cost estimates, and prepare construction schedules.

Computer Engineering Technology

*CET-111 Computer Upgrade/Repair I

2 3 3

Prerequisites: None Corequisites: None

This course covers repairing, servicing, and upgrading computers and peripherals in preparation for industry certification. Topics include CPU/memory/bus identification, disk subsystems, hardware/software installation/configuration, common device drivers, data recovery, system maintenance, and other related topics. Upon completion, students should be able to safely repair and/or upgrade computer systems to perform within specifications.

*CET-161 Procedural Programming

2 3 3

Prerequisites: None Corequisites: None

This course introduces procedural programming for engineering applications. Emphasis is placed on event-driven programming methods, including creating and manipulating data, sequencing, iteration, and blocking of code. Upon completion, students should be able to design, code, test and debug at a beginning level.

Chemistry

CHM-092 Fundamentals of Chemistry

Prerequisites: DRE-097 or ENG-002 Tier 1 and DMA-010-030 or MAT-003

Tier 1

Corequisites: None

This course covers fundamentals of chemistry with laboratory applications. Topics include measurements, matter, energy, atomic theory, bonding, molecular structure, nomenclature, balancing equations, stoichiometry, solutions, acids and bases, gases, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts and demonstrate basic laboratory skills necessary for success in college-level science courses.

CHM-121 Foundations of Chemistry

3 0

3 2

Prerequisites: DRE-097 or ENG-002 Tier 1 and DMA-010-030 or MAT-003 Tier 1

Corequisites: CHM 121A

This course is designed for those who have no previous high school chemistry or a grade of C or less in high school chemistry. Topics include matter, structure of the atom, nomenclature, chemical equations, bonding and reactions; mathematical topics include measurements, scientific notation, and stoichiometry. Upon completion, students should be able to demonstrate an understanding of chemical concepts and an ability to solve related problems in subsequent chemistry courses.

CHM-121A Foundations of Chemistry Laboratory

0 2 1

Prerequisites: None Corequisites: CHM-121

This course is a laboratory for CHM 121. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 121. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 121.

CHM-130 Gen, Org, & and Biochemistry

3 0 3

2 1

Prerequisites: High school chemistry or CHM 092, DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: CHM-130A

This course provides a survey of basic facts and principles of general, organic, and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties, and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CHM-130A Gen, Org, and Biochem Lab

Prerequisites: None Corequisites: CHM-130

This course is a laboratory for CHM 130. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 130. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 130. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CHM-132 Organic and Biochemistry

3 4

Prerequisites: C or better in CHM-131/131A or CHM-151

Corequisites: None

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields. This course has been approved for transfer under the CAA as a general education course in Natural Science.

CHM-151 General Chemistry I

3 3 4

Prerequisites: High school chemistry or CHM-092 or CHM-121/121A; DMA-010 - DMA-050 or MAT-003 Tier 2; DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences.

CHM-152 General Chemistry II

3 4

Prerequisites: C or better in CHM-151; C or better in MAT-160 or MAT-171 Corequisites: None

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associate of Science Degree.

CHM-251 Organic Chemistry I

3

Prerequisites: C or better in CHM-152

Corequisites: None

This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CHM-252 Organic Chemistry II

3 3

Prerequisites: C or better in CHM-251

Corequisites: None

This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CHM-271 Biochemical Principles

Prerequisites: C or better in CHM-252

Corequisites: None

The course covers fundamental principles of biochemistry. Topics include structures, properties, reactions, and mechanisms of biomacromolecules including amino acids, peptides, proteins, carbohydrates and nucleic acids, enzymatic metabolic pathways, and biochemical genetics. Upon completion, students should be able to demonstrate an understanding of fundamental biochemical processes. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Information Systems

CIS-110 Introduction to Computers

2 2

0

Prerequisites: None Corequisites: None

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. Microsoft Office will be used in this course. ; this includes Word, Excel, Access and PowerPoint. This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

CIS-113 Computer Basics

0 2 1

Prerequisites: None Corequisites: None

This course introduces basic computer usage for noncomputers majors. Emphasis is placed on developing basic personal computer skills. Upon completion, students should be able to demonstrate competence in basic computer applications.

CIS-115 Intro to Prog & Logic

2 3 3

4

Prerequisites: Take One Set: Set 1: DMA-040 or placement

Set 2: MAT-121 Set 3: MAT-171 Set 4: MAT-003 Coreguisites: None

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to use top-down algorithm design and implement algorithmic solutions in a programming language. This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative).

Civil Engineering

CIV-111 Soils and Foundations 2

Prerequisites: Take One: EGR-250, EGR-251, or MEC-210

Corequisites: None

This course presents an overview of soil as a construction material using both analysis and testing procedures. Topics include index properties, classification, stress analysis, compressibility, compaction, dewatering, excavation, stabilization, settlement, and foundations. Upon completion, students should be able to perform basic soil tests and analyze engineering properties of soil.

CIV-125 Civil/Surveying CAD

Prerequisites: CEG-151 or DFT-151

Corequisites: None

This course introduces civil/surveying computer-aided drafting (CAD) software. Topics include drawing, editing, and dimensioning commands, plotting, and other related civil/surveying topics. Upon completion, students should be able to produce civil/surveying drawings using CAD software.

CIV-215 Highway Technology

2 3 3

Prerequisites: Take One Set: Set 1: CEG-115 and MAT-121 Set 2: CEG-115 and MAT-171 Set 3: EGR-115 and MAT-121 Set 4: EGR-115 and MAT-171

Corequisites: None

This course introduces the essential elements of roadway components and design. Topics include subgrade and pavement construction, roadway drawings and details, traffic analysis, geometric design and other related topics. Upon completion, students should be able to interpret roadway details and specifications, and produce street and highway construction drawings.

CIV-220 Basic Structural Concepts

1 3 2

Prerequisites: Take One: EGR-250, EGR-251, or MEC-210

Corequisites: None

This course covers the historical perspective of structures as well as types, materials, common elements, and mechanical principles of structures. Topics include basic structure shapes, advantages and disadvantages of standard building materials, application of structural concepts, and other related topics. Upon completion, students should be able to demonstrate an understanding of basic structural concepts.

*CIV-250 Civil Eng Tech Project

1 3 2

Prerequisites: Department Chair Approval

Corequisites: None

This course includes an integrated team approach to civil engineering technology projects. Emphasis is placed on project proposal, site selection, analysis/design of structures, construction material selection, time and cost estimating, planning, and management of a project. Upon completion, students should be able to apply team concepts, prepare estimates, submit bid proposals, and manage projects.

Criminal Justice

*CJC-110 Basic Law Enforcement BLET

10 30 20

Prerequisites: None Corequisites: None

This course covers the basic skills and knowledge needed for entry-level employment as a law enforcement officer in North Carolina. Topics include those mandated by North Carolina Administration Code as essential for functioning in law enforcement. Upon completion, the student should be able to demonstrate competence in the topics required for the state comprehensive certification examination.

*CJC-111 Intro to Criminal Justice

3 0 3

Prerequisites: None Corequisites: None

This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

urse Descriptions

*CJC-112 Criminology

Prerequisites: None Corequisites: None

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

*CJC-113 Juvenile Justice

3 0 3

0

Prerequisites: None Corequisites: None

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

*CJC-121 Law Enforcement Operations

3 0

Prerequisites: None Corequisites: None

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. This course has been approved for transfer under the CAA as a premajor and/ or elective course requirement.

*CJC-122 Community Policing

3 0

Prerequisites: None Corequisites: None

This course covers the historical, philosophical, and practical dimensions of community policing. Emphasis is placed on the empowerment of police and the community to find solutions to problems by forming partnerships. Upon completion, students should be able to define community policing, describe how community policing strategies solve problems, and compare community policing to traditional policing.

*CJC-131 Criminal Law

3 0

Prerequisites: None Corequisites: None

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

*CJC-132 Court Procedure & Evidence

3 0

Prerequisites: None Corequisites: None

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.

*CJC-141 Corrections

Prerequisites: None Corequisites: None

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*CJC-170 Critical Incident Mgt Pub Saf

0 :

Prerequisites: None Corequisites: None

This course prepares the student to specialize in the direct response, operations, and management of critical incidents. Emphasis is placed upon the theoretical and applied models to understand and manage disasters, terrorism, and school/workplace violence. Upon completion, the student should be able to identify and discuss managerial techniques, legal issues, and response procedures to critical incidents.

*CJC-212 Ethics and Comm Relations

0 3

Prerequisites: None Corequisites: None

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

*CJC-221 Investigative Principles

3 2 4

Prerequisites: None Corequisites: None

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

*CJC-222 Criminalistics

3 0 3

Prerequisites: None Corequisites: None

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

*CJC-231 Constitutional Law

3 0 3

Prerequisites: None Corequisites: None

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

*CJC-255 Issue in Criminal Justice App

Prerequisites: CJC-111, CJC-221, and CJC-231

Corequisites: None

This course provides an opportunity to exhibit interpersonal and technical skills required for application of criminal justice concepts in contemporary practical situations. Emphasis is placed on critical thinking and integration of theory and practical skills components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level law enforcement officer.

Construction Management

CMT-210 Construction Management Fund

Prerequisites: None Corequisites: None

This course introduces the student to the fundamentals of effective supervision emphasizing professionalism through knowledge and applied skills. Topics include safety, planning and scheduling, contract, problem-solving, communications, conflict resolution, recruitment, employment laws and regulations, leadership, motivation, teamwork, discipline, setting objectives, and training. Upon completion, the student should be able to demonstrate the basic skills necessary to be successful as a supervisor in the construction industry.

*CMT-212 Total Safety Performance

Prerequisites: None Corequisites: CMT-210

This course covers the importance of managing safety and productivity equally by encouraging people to take individual responsibility for safety and health in the workplace. Topics include safety management, controlling construction hazards, communicating and enforcing policies, OSHA compliance, personal responsibility and accountability, safety planning, training, and personal protective equipment. Upon completion, students should be able to supervise safety at a construction job site and qualify for the OSHA Training Certification.

*CMT-214 Planning and Scheduling

Prerequisites: CMT-210 and BPR-130

Corequisites: None

This course covers the need for the process of planning construction projects, as well as the mechanics and vocabulary of project scheduling. Topics include project preplanning, scheduling format, planning for production, short interval planning, schedule updating and revising, and computer-based planning and scheduling. Upon completion, the student should be able to understand the need for planning and scheduling, the language and logic of scheduling, and use of planning skills.

*CMT-216 Costs and Productivity

3 0

Prerequisites: CMT-210 Corequisites: None

This course covers the relationships between time, work completed, work-hours spent, schedule duration, equipment hours, and materials used. Topics include production rates, productivity unit rates, work method improvements, and overall total project cost control. Upon completion, the student should be able to demonstrate an understanding of how costs may be controlled and productivity improved on a construction project.

*CMT-218 Human Relations Issues

Prerequisites: CMT-210 Corequisites: None Available: Spring

0

3 0 3

This course provides instruction on human relations issues as they relate to construction project supervision. Topics include relationships, human behavior, project staffing issues, teamwork, effective communication networks, laws and regulations, and identifying and responding to conflict, crisis, and discipline. Upon completion, the student will demonstrate an understanding of the importance of human relations in the success of a construction project.

Communication

COM-110 Introduction to Communication

3 0 3

Prerequisites: None Corequisites: None

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. This course has been approved for transfer under the CAA as a general education course in Communication.

COM-120 Intro to Interpersonal Communication 3 0

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. This is a Universal General Education Transfer Component (UGETC) course that satisfies Communication.

COM-140 Intro to Intercultural Communication 3 0

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the principles and skills needed to become effective in communicating outside one's primary culture. This course has been approved for transfer under the CAA as a general education course in Communication.

COM-150 Intro to Mass Communication

Prerequisites: C or better in ENG-111

Corequisites: None

This course introduces print and electronic media and the new information technologies in terms of communication theory and as economic, political, and social institutions. Topics include the nature, history, functions, and responsibilities of mass communication industries in a global environment and their role and impact in American society. Upon completion, students should be able to demonstrate awareness of the pervasive nature of mass media and how media operate in an advanced post-industrial society. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

COM-231 Public Speaking

3 0 3 1, or C or better in

0

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. This is a Universal General Education Transfer Component (UGETC) course that satisfies Communication.

Cosmetology

*COS-111 Cosmetology Concepts I

4 0 4

Prerequisites: None Corequisites: COS-112

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting.

*COS-112 Salon I

0 24 8

Prerequisites: None Corequisites: COS-111

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, haircutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services.

*COS-113 Cosmetology Concepts II

4 0 4

Prerequisites: COS-111 and COS-112

Corequisites: COS-114

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

*COS-114 Salon II

0 24 8

Prerequisites: COS-111 and COS-112

Corequisites: COS-113

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

*COS-115 Cosmetology Concepts III

4 0 4

Prerequisites: COS-111, COS-112, and COS-113

Corequisites: COS-116

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

*COS-116 Salon III

0 12 4

Prerequisites: COS-111, COS-112, and COS-114

Corequisites: COS-115

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

COS-117 Cosmetology Concepts IV

0 2

Prerequisites: COS-111, COS-112, COS-113, and COS-115

Corequisites: COS-118

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

COS-118 Salon IV

0 21 7

Prerequisites: COS-111, COS-112, COS-114, and COS-116

Corequisites: COS-117

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements.

*COS-119 Esthetics Concepts I

2 0 2

Prerequisites: DRE-097, ENG-002 Tier 1, or placement

Corequisites: COS-120

This course covers the concepts of esthetics. Topics include orientation, anatomy, physiology, hygiene, sterilization, first aid, chemistry, basic dermatology, and professional ethics. Upon completion, students should be able to demonstrate an understanding of the concepts of esthetics and meet course requirements.

*COS-120 Esthetics Salon I

0 18 6

Prerequisites: DRE-097, ENG-002 Tier 1, or placement

Corequisites: COS-119

This course covers the techniques of esthetics in a comprehensive experience in a simulated salon setting. Topics include client consultation, facials, body treatments, hair removal, make-up applications, and color analysis. Upon completion, students should be able to safely and competently demonstrate esthetic services on clients in a salon setting.

Course Descriptions

*COS-121 Manicure/Nail Technology I

Prerequisites: DRE-097, ENG-002 Tier 1, or placement

Corequisites: None

This course covers techniques of nail technology, hand and arm surface manipulation, and recognition of nail diseases and disorders. Topics include OSHA/safety, sanitation, bacteriology, product knowledge, salesmanship, manicures, artificial applications, pedicures, surface manipulation, and other related topics. Upon completion, students should be able to safely and competently perform nail care, including manicures, pedicures, surface manipulations, decorating and artificial applications in a salon setting.

*COS-125 Esthetics Concepts II

2 0 2

6

Prerequisites: COS-119 Corequisites: COS-126

This course covers more comprehensive esthetics concepts. Topics include nutrition, business management, makeup, and color analysis. Upon completion students should be able to demonstrate an understanding of the advanced esthetics concepts and meet course requirements.

*COS-126 Esthetics Salon II

0 18 6

Prerequisites: COS-120 Corequisites: COS-125

This course provides experience in a simulated esthetics setting. Topics include machine facials, aromatherapy, surface manipulation in relation to skin care, electricity, and apparatus. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology licensing examination for Estheticians.

*COS-222 Manicure/Nail Tech. II

4 6 6

Prerequisites: COS-121 Corequisites: None

This course covers advanced techniques of nail technology and hand and arm surface manipulation. Topics include OSHA/safety, product knowledge, customer service, salesmanship, artificial applications, nail art, and other related topics. Upon completion, students should be able to demonstrate competence necessary for the licensing examination, including advanced nail care, artificial enhancements, and decorations.

COS-260 Design Applications

1 3 2

Prerequisites: COS-115, COS-116

Corequisites: None

This course provides an overview of the design concepts used in cosmetology. Topics include the application of art principles and elements to artistically design hair, nails, and make-up and other related topics. Upon completion, students should be able to demonstrate knowledge and techniques associated with design concepts.

*COS-271 Instructor Concepts I

5 0 5

Prerequisites: None Corequisites: COS-272

This course introduces the basic cosmetology instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervisory techniques, and assess student performance in a classroom setting.

*COS-272 Instructor Practicum I

0 21 7

Prerequisites: None Corequisites: COS-271

This course covers supervisory and instructional skills for teaching entry-level cosmetology students in a laboratory setting. Topics include demonstrations of services, supervision,

and entry-level student assessment. Upon completion, students should be able to demonstrate salon services and instruct and objectively assess the entry-level student.

*COS-273 Instructor Concepts II

5 0 5

Prerequisites: COS-271, COS-272

Corequisites: COS-274

This course covers advanced cosmetology instructional concepts. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping, and other related topics. Upon completion, students should be able to develop lesson plans, demonstrate supervision techniques, assess student performance in a classroom setting, and keep accurate records.

*COS-274 Instructor Practicum II

0 21 7

Prerequisites: COS-271, COS-272

Corequisites: COS-273

This course is designed to develop supervisory and instructional skills for teaching advanced cosmetology students in a laboratory setting. Topics include practical demonstrations, supervision, and advanced student assessment. Upon completion, students should be able to demonstrate competence in the areas covered by the Instructor Licensing Examination and meet program completion requirements.

Computer Science

CSC-118 Swift Programming I

2 3 3

Prerequisites: None Coreguisites: None

This course introduces the development of iOS applications and Apple applications using Swift programming language. Emphasis is placed on syntax, object-oriented principles, memory management, and functional concepts of Swift programming. Upon completion, students should be able to develop fully functional iOS and Apple applications using Swift programming language.

CSC-134 C++ Programming

2 3 3

Prerequisites: Take one set: Set 1: C or better in CIS-115

Set 2: C or better in MAT-172 and EGR-150

Corequisites: None

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CSC-151 JAVA Programming

2 3 3

Prerequisites: Take one set: Set 1: C or better in CIS-115

Set 2: C or better in MAT-271 and EGR-150

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming

methods, including creating and manipulating objects, classes. and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CSC-218 **Swift Programming II**

2 3 3

Prerequisites: C or better in CSC-118

Corequisites: None

This course introduces advanced iOS application development using the Swift programming language. Emphasis is placed on navigation, data manipulation, web services, prototyping, debugging, and project planning. Upon completion, students should be able to develop advanced multifunctional iOS and Apple applications using the Swift programming language.

Construction

CST-111 Construction I

3 3

Prerequisites: None Corequisites: None

This course covers standard and alternative building methods to include wall framing. Topics include safety and footings, foundations, floor framing systems, and wall framing systems commonly used in the construction industry. Upon completion, students should be able to safely erect all framing necessary to begin roof framing.

CST-112 **Construction II**

3 3

Prerequisites: Take CST-111

Corequisites: None

This course covers building methods and materials used to dry-in a building. Topics include safety, ceiling/roof framing applications, roof finishes, windows, and exterior doors. Upon completion, students should be able to safely erect different roof types and properly install window and exterior doors, roofing, and exterior finish materials.

CST-113 Construction III

3 3 4

Prerequisites: Take CST-112

Corequisites: None

This course covers building methods and materials used to complete the interior of a structure. Topics include safety, installation of thermal and acoustical barriers, and interior finishes including millwork, cabinets, interior doors, flooring, and wall treatments. Upon completion, students should be able to safely and accurately install interior treatments including insulation, paneling, drywall, molding, doors, flooring, and cabinetry.

CST-150 **Building Science**

2 2 3

Prerequisites: None Corequisites: None

This course introduces concepts and techniques for the design and interaction of the mechanical systems of high performance buildings. Topics include building envelope, heating, ventilation and air conditioning (HVAC), indoor air quality, lighting, plumbing, and electrical. Upon completion, students should be able to understand building systems interaction and performance.

Planning/Estimating I *CST-241

2 2

Prerequisites: Take one: BPR-130, MAT-121, or MAT-171

Corequisites: None

This course covers the procedures involved in planning and estimating a construction/building project. Topics include performing quantity take-offs of materials necessary for a building project. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs involved in a construction project.

*CST-244 Sustainable Bldg Design

3 3

Prerequisites: None Corequisites: None

This course is designed to increase student knowledge about integrating sustainable design principles and green building technologies into mainstream residential construction Emphasis is placed on reducing negative practices. environmental impact and improving building performance, indoor air quality, and the comfort of a building's occupants. Upon completion, students should be able to identify principles of green building, environmental efficiency, and conservation of natural resources in relation to basic construction practices.

Computer Tech Integration

Web, Pgm, & Db Foundation CTI-110

2 2

Prerequisites: None Corequisites: None

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table.

CTI-120 **Network & Sec Foundation**

2 3

Prerequisites: None Corequisites: None

This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols.

CTI-240 Virtualization Admin I

Prerequisites: C or better in ELC-111, NET-125, NOS-120, and NOS-130 Corequisites: None

This course covers datacenter virtualization concepts. Topics include data storage, virtual network configuration, virtual machine and virtual application deployment. Upon completion,

students should be able to perform tasks related to virtual machine and hypervisor installation and configuration

Computer Information Technology

CTS-115 Info Sys Business Concepts

Prerequisites: None Corequisites: None

The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

CTS-120 Hardware/Software Support

2 3 3

0

Prerequisites: C or better in NOS-110

Corequisites: None

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

CTS-130 Spreadsheet

2 2 3

Prerequisites: C or better in CIS-110, CIS-111, or OST-137

Corequisites: None

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts. This course covers advanced functions, charting, macros, databases, and linking.

CTS-135 Integrated Software Intro

2 4 4

Prerequisites: C or better in CIS-110

Corequisites: None

This course instructs students in the Windows or Linux based program suites for word processing, spreadsheet, database, personal information manager, and presentation software. This course prepares students for introductory level skills in database, spreadsheet, personal information manager, word processing, and presentation applications to utilize data sharing. Upon completion, students should be able to design and integrate data at an introductory level to produce documents using multiple technologies.

CTS-217 Computer Training/Support

2 4 3

Prerequisites: C or better in CTS-135

Corequisites: None

This course introduces computer training and support techniques. Topics include methods of adult learning, training design, delivery, and evaluation, creating documentation, and user support methods. Upon completion, students should be able to design and implement training and provide continued support for computer users.

CTS-220 Adv Hard/Software Support

2 3

Prerequisites: C or better in CTS-120

Corequisites: None

This course provides advanced knowledge and competencies in hardware and operating system technologies for computer technicians to support personal computers. Emphasis is placed on: configuring and upgrading; diagnosis and troubleshooting; as well as preventative maintenance of hardware and system software. Upon completion, students should be able to install, configure, diagnose, perform preventative maintenance, and maintain basic networking on personal computers.

*CTS-289 System Support Project

1 4

Prerequisites: C or better in CTI-110, CTI-120, and CTS-115

Corequisites: CTS-285

This course provides an opportunity to complete a significant support project with minimal instructor assistance. Emphasis is placed on written and oral communication skills, project definition, documentation, installation, testing, presentation, and user training. Upon completion, students should be able to complete a project from the definition phase through implementation.

Culinary

CUL-110 Sanitation & Safety

2 0 2

Prerequisites: None Coreauisites: None

This course introduces the basic principles of sanitation and safety relative to the hospitality industry. Topics include personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate an understanding of the content necessary for successful completion of a nationally recognized food/safety/sanitation exam.

CUL-112 Nutrition for Foodservice

0 3

Prerequisites: None Corequisites: None

This course covers the principles of nutrition and its relationship to the foodservice industry. Topics include personal nutrition fundamentals, weight management, exercise, nutritional adaptation/analysis of recipes/menus, healthy cooking techniques and marketing nutrition in a foodservice operation. Upon completion, students should be able to apply basic nutritional concepts to food preparation and selection.

*CUL-135 Food & Beverage Service

2 0 2

Prerequisites: CUL-230 or HRM-124

Corequisites: CUL-135A

This course is designed to cover the practical skills and knowledge necessary for effective food and beverage service in a variety of settings. Topics include greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate competence in human relations and the skills required in the service of foods and beverages.

*CUL-135A Food & Beverage Serv Lab

0 2 1

Prerequisites: CUL-230 or HRM-124

Corequisites: CUL-135

This course provides a laboratory experience for enhancing student skills in effective food and beverage service. Emphasis is placed on practical experiences including greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate practical applications of human relations and the skills required in the service of foods and beverages.

*CUL-140 Culinary Skills I

2 6 5

Prerequisites: None

Corequisites: CUL-110 and CUL-140A

This course introduces the fundamental concepts, skills, and techniques in basic cookery, and moist, dry and combination heat. Emphasis is placed on recipe conversion, measurements, terminology, classical knife cuts, safe food/equipment handling, flavorings/seasonings, stocks/sauces/soups, and related topics. Upon completion, students should be able to exhibit the basic cooking skills used in the food service industry. Weekly participation in Global Cuisine buffets, banquets, and a la carte production enhances students' culinary and service skills.

ourse Description

*CUL-140A Culinary Skills I Lab

Prerequisites: None

Corequisites: CUL-110, CUL-140

This course provides laboratory experience for enhancing student skills in the fundamental concepts, skills and techniques in basic cookery, and moist, dry and combination heat. Emphasis is placed on practical experiences including recipe conversion, measurements, terminology, classical knife cuts, safe food/equipment handling, flavorings/seasonings, stocks/sauces/soups, and related topics. Upon completion, students should be able to demonstrate competency in the basic cooking skills used in the foodservice industry.

*CUL-142 Fundamentals of Food

6 5

3 1

Prerequisites: None Corequisites: Take one set: Set 1: CUL-110 and CUL-160 Set 2: CUL-110 and HRM-124

This course introduces the student to the basic principles of cooking, baking, and kitchen operations. Topics include preparation methods for protein, starch, vegetable/fruit identification, selection, storage, breakfast cookery, breads, sweet dough/pastries, basic fabrication, knife skills, and mise en place. Upon completion, students should be able to execute efficiently a broad range of basic cooking/baking skills as they apply to different stations in foodservice operations. Weekly participation in Global Cuisine buffets, banquets, and a la carte production enhances student service skills.

*CUL-150 Food Science

1 2 2

Prerequisites: None Corequisites: CUL-110

This course covers the chemical and physical changes in foods that occur with cooking, handling, and processing. Emphasis is placed on practical application of heat transfer and its effect on color/flavor/texture, emulsification, protein coagulation, leavening agents, viscosity, and gel formation. Upon completion, students should be able to demonstrate an understanding of these principles as they apply to food preparation in an experimental setting.

*CUL-160 Baking I

1 4 3

Prerequisites: None Corequisites: CUL-110

This course covers basic ingredients, techniques, weights and measures, baking terminology, and formula calculations. Topics include yeast/chemically leavened products, laminated doughs, pastry dough batter, pies/tarts, meringue, custard, cakes and cookies, icings, glazes and basic sauces. Upon completion, students should be able to demonstrate proper scaling and measurement techniques, and prepare and evaluate a variety of bakery products.

*CUL-170 Garde Manger I

1 4

3

Prerequisites: None Corequisites: CUL-110

This course introduces basic cold food preparation techniques and pantry production. Topics include salads, sandwiches, appetizers, dressings, basic garnishes, cheeses, cold sauces, and related food items. Upon completion, students should be able to present a cold food display and exhibit an understanding of the cold kitchen and its related terminology.

*CUL-230 Global Cuisines

I 8 5

Prerequisites: CUL-110, CUL-140, CUL-140A, CUL-240, CUL-150, CUL-240A and WBL-112

Corequisites: None

This course provides practical experience in the planning, preparation, and presentation of representative foods from a variety of world cuisines. Emphasis is placed on indigenous ingredients and customs, nutritional concerns, and cooking techniques. Upon completion, students should be able to research and execute a variety of international and domestic menus. Weekly participation in buffets, banquets, and a la carte production enhances students' supervisory and technical skills.

*CUL-240 Culinary Skills II

8 5

Prerequisites: CUL-110, CUL-140, and CUL-140A

Corequisites: CUL-240A

This course is designed to further students' knowledge of the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on meat identification/fabrication, butchery and cooking techniques/methods; appropriate vegetable/starch accompaniments; compound sauces; plate presentation; breakfast cookery; and quantity food preparation. Upon completion, students should be able to plan, execute, and successfully serve entrees with complementary side items.

*CUL-240A Culinary Skills II Lab

03′

Prerequisites: CUL-110, CUL-140, and CUL-140A

Corequisites: CUL-240

This course provides a laboratory experience for furthering students' knowledge of the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on practical applications of meat identification/fabrication; butchery and cooking techniques/methods; appropriate vegetable/starch accompaniments; compound sauces; plate presentation; breakfast cookery; and food preparation. Upon completion, students should be able to demonstrate a basic proficiency in the preparation of entrées and accompaniments. Weekly participation in a la carte production enhances students' culinary and service skills.

*CUL-250 Classical Cuisine

1 8 5

Prerequisites: CUL-110, CUL-140, CUL-140A, CUL-160, CUL-230, CUL-240, CUL-240A, CUL-270, and WBL-112

Corequisites: CUL-135 and CUL-135A

This course is designed to reinforce the classical culinary kitchen. Topics include the working Grand Brigade of the kitchen, signature dishes, and classical banquets. Upon completion, students should be able to demonstrate competence in food preparation in a classical/upscale restaurant or banquet setting. This course includes weekly a la carte service encompassing contemporary and classical preparation and a capstone final exam.

*CUL-260 Baking II

4 3

Prerequisites: CUL-110 and CUL-160

Corequisites: None

This course is designed to further students' knowledge in ingredients, weights and measures, baking terminology and formula calculation. Topics include classical desserts, frozen desserts, cake and torte production, decorating and icings/glazes, dessert plating and presentation. Upon completion, students should be able to demonstrate pastry preparation, plating, and dessert buffet production skills.

Course Descriptions

*CUL-270 Garde Manger II

1 4 3

Prerequisites: CUL-110, CUL-140, CUL-140A, CUL-170, CUL-240, and CUL-240A

Corequisites: None

This course is designed to further students' knowledge in basic cold food preparation techniques and pantry production. Topics include pâtés, terrines, galantines, decorative garnishing skills, carving, charcuterie, smoking, canapés, hors d'oeuvres, and related food items. Upon completion, students should be able to design, set up, and evaluate a catering/event display to include a cold buffet with appropriate showpieces.

*CUL-285 Competition Fundamentals

1 4 3

Prerequisites: Take one set: Set 1: CUL-110 and CUL-140 Set 2: CUL-110 and CUL-160 Corequisites: None

This course provides practical experience in the planning, techniques, and procedures required for culinary competitions and exhibitions. Emphasis is placed on competition strategies including menu planning, teamwork, plate design, flavor profiles, recipe development, nutrition, advanced knife/culinary skills, professionalism and portfolio development. Upon completion, students should be able to apply competition/exhibition skills and standards in the competition arena and professional kitchen.

Database Management Technology

DBA-110 Database Concepts

2 3 3

Prerequisites: C or better in CIS-110, CIS-115, or CTI-110

Corequisites: None

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports and forms.

DBA-120 Database Programming I

2 2 3

Prerequisites: C or better in CIS-110, CIS-115, or CTI-110

Corequisites: None

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update and produce reports.

DBA-210 Database Administration

2 3 3

Prerequisites: C or better in DBA-120

Corequisites: None

This course covers database administration issues and distributed database concepts. Topics include database administrator (DBA) goals and functions, backup and recovery, standards and procedures, training, and database security and performance evaluations. Upon completion, students should be able to produce functional DBA documentation and administer a database.

Developmental Disabilities

*DDT-110 Developmental Disabilities

3 0 0 3

Prerequisites: None Corequisites: None

This course identifies the characteristics and causes of various disabilities. Topics include history of service provision, human rights, legislation and litigation, advocacy, and accessing support services. Upon completion, students should be able to demonstrate an understanding of current and historical developmental disability definitions and support systems used throughout the life span. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

Dental

DEN-100 Basic Orofacial Anatomy

2 0 0 2

Prerequisites: None Corequisites: None

This course provides a basic introduction to the structures of the head, neck, and oral cavity. Topics include tooth morphology, head and neck anatomy, histology, and embryology. Upon completion, students should be able to demonstrate knowledge of normal structures and development and how they relate to the practice of dental assisting.

DEN-101 Preclinical Procedures

460

Prerequisites: None Coreauisites: None

This course provides instruction in procedures for the clinical dental assistant as specified by the North Carolina Dental Practice Act. Emphasis is placed on orientation to profession, infection control techniques, instruments, related expanded functions, and diagnostic, operative, and specialty procedures. Upon completion, students should be able to demonstrate proficiency in clinical dental assisting procedures

*DEN-102 Dental Materials

2 4 0 4

Prerequisites: None Coreauisites: None

This course provides instruction in identification, properties, evaluation of quality, principles, and procedures related to manipulation and storage of operative and specialty dental materials. Emphasis is placed on the understanding and safe application of materials used in the dental office and laboratory. Upon completion, students should be able to demonstrate proficiency in the laboratory and clinical application of routinely used dental materials. This is a diploma-level course.

DEN-103 Dental Sciences

2 0 0 2

Prerequisites: None Corequisites: None

This course is a study of oral pathology, pharmacology, and dental office emergencies. Topics include oral pathological conditions, dental therapeutics, and management of emergency situations. Upon completion, students should be able to recognize abnormal oral conditions, identify classifications, describe actions and effects of commonly prescribed drugs, and respond to medical emergencies. This is a diploma-level course.

*DEN-104 Dental Health Education

Prerequisites: None Corequisites: None

This course covers the study of preventative dentistry to prepare dental assisting students for the role of dental health educator. Topics include etiology of dental diseases, preventative procedures, and patient education theory and practice. Upon completion, students should be able to demonstrate proficiency in patient counseling and oral health instruction in private practice or public health settings. This is a diploma-level course.

*DEN-105 Practice Management

2 0 0 2

2 2 0 3

Prerequisites: None Corequisites: None

This course provides a study of principles and procedures related to management of the dental practice. Emphasis is placed on maintaining clinical and financial records, patient scheduling, and supply and inventory control. Upon completion, students should be able to demonstrate fundamental skills in dental practice management. This is a diploma-level course.

*DEN-106 Clinical Practice I

2 0 12 6

Prerequisites: DEN-101 Corequisites: None

This course is designed to provide experience assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. Upon completion, students should be able to utilize classroom theory, laboratory, and clinical skills in a dental setting. This is a diploma-level course.

*DEN-107 Clinical Practice II

1 0 12 5

Prerequisites: DEN-106 Corequisites: None

This course is designed to increase the level of proficiency in assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. Upon completion, students should be able to combine theoretical and ethical principles necessary to perform entry-level skills including functions delegable to a DA II. This is a diploma-level course.

DEN-110 Orofacial Anatomy

Prerequisites: None Corequisites: None

This course introduces the structures of the head, neck, and oral cavity. Topics include tooth morphology, head and neck anatomy, histology, and embryology. Upon completion, students should be able to relate the identification of normal structures and development to the practice of dental assisting and dental hygiene.

DEN-111 Infection/Hazard Control

2 0 0 2

2 2 0 3

Prerequisites: None Corequisites: None

This course introduces the infection and hazard control procedures necessary for the safe practice of dentistry. Topics include microbiology, practical infection control, sterilization and monitoring, chemical disinfectants, aseptic technique, infectious diseases, OSHA standards, and applicable North Carolina laws. Upon completion, students should be able to understand infectious diseases, disease transmission, infection control procedures, biohazard management, OSHA standards, and applicable North Carolina laws. Upon successful completion, students will also meet the requirements of 10ANC Administrative Code 41A.0206 for SPICE training.

DEN-112 Dental Radiography

Prerequisites: None Corequisites: None

This course provides a comprehensive view of the principles and procedures of radiology as they apply to dentistry. Topics include techniques in exposing, processing, and evaluating radiographs, as well as radiation safety, quality assurance, and legal issues. Upon completion, students should be able to demonstrate proficiency in the production of diagnostically acceptable radiographs using appropriate safety precautions.

DEN-120 Dental Hyg Preclinic Lec

2 0 0 2

2 3 0 3

Prerequisites: None Corequisites: DEN-121

This course introduces preoperative and clinical dental hygiene concepts. Emphasis is placed on the assessment phase of patient care as well as the theory of basic dental hygiene instrumentation. Upon completion, students should be able to collect and evaluate patient data at a basic level and demonstrate knowledge of dental hygiene instrumentation.

*DEN-121 Dental Hyg Preclinic Lab

0 6 0 2

Prerequisites: None Corequisites: DEN-120

This course provides the opportunity to perform clinical dental hygiene procedures discussed in DEN 120. Emphasis is placed on clinical skills in patient assessment and instrumentation techniques. Upon completion, students should be able to demonstrate the ability to perform specific preclinical procedures. Also, students should be able to demonstrate aseptic technique used in a dental environment.

DEN-123 Nutrition/Dental Health

2 0 0 2

Prerequisites: None Corequisites: None

This course introduces basic principles of nutrition with emphasis on nutritional requirements and their application to individual patient needs. Topics include the study of Federal Nutritional Guidelines, nutrient functions, Recommended Daily Allowances, Adequate Intake, Tolerable Upper Intake Level, Estimated Average Requirement, and related psychological principles. Upon completion, students should be able to recommend and counsel individuals on their food intake as related to their dental health.

DEN-124 Periodontology

2 0 0 2

Prerequisites: DEN-110 Corequisites: None

This course provides an in-depth study of the periodontium, periodontal pathology, periodontal monitoring, and the principles of periodontal therapy. Topics include periodontal anatomy and a study of the etiology, classification, and treatment modalities of periodontal diseases. Upon completion, students should be able to describe, compare, and contrast techniques involved in periodontal/maintenance therapy, as well as patient care management.

*DEN-125 Dental Office Emergencies

0 2 0 1

Prerequisites: None Corequisites: None

This course provides a study of the management of dental office emergencies. Topics include methods of prevention, necessary equipment/drugs, medicolegal considerations, recognition and effective initial management of a variety of emergencies. Upon completion, students should be able to recognize, assess, and manage various dental office emergencies and activate advanced medical support when indicated.

*DEN-130 Dental Hygiene Theory I

Prerequisites: DEN-120 Corequisites: DEN-131

This course is a continuation of the didactic dental hygiene concepts necessary for providing an oral prophylaxis. Topics include deposits/removal, instrument sharpening, patient education, fluorides, planning for dental hygiene treatment, charting, and clinical records and procedures. Upon completion, students should be able to demonstrate knowledge needed to complete a thorough oral prophylaxis.

*DEN-131 Dental Hygiene Clinic I

Prerequisites: DEN-121 Corequisites: DEN-130

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of the recall patients with gingivitis or light deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

*DEN-140 Dental Hygiene Theory II

Prerequisites: DEN-130 Corequisites: DEN-141

This course introduces principles in treatment modification. Topics include modification of treatment for pain management and advanced radiographic interpretation. Upon completion, students should be able to differentiate necessary treatment modifications and radiographic abnormalities.

*DEN-141 Dental Hygiene Clinic II

Prerequisites: DEN-131 Corequisites: DEN-140

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with early periodontal disease and subgingival deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

*DEN-220 Dental Hygiene Theory III

Prerequisites: DEN-140 Corequisites: DEN-221

This course introduces advanced principles of patient care. Topics include advanced periodontal debridement, subgingival irrigation, air polishing, special needs and case presentations. Upon completion, students should be able to demonstrate knowledge of methods of treatment and management of periodontally compromised and special needs patients.

*DEN-221 Dental Hygiene Clinic III

Prerequisites: DEN-141 Corequisites: DEN-220

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with moderate to advanced periodontal involvement and moderate deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

DEN-222 General & Oral Pathology

Prerequisites: BIO-163, BIO-165, or BIO-168

Corequisites: None

This course provides a general knowledge of oral pathological manifestations associated with selected systemic and oral diseases. Topics include developmental and degenerative diseases, selected microbial diseases, specific and nonspecific immune and inflammatory responses with emphasis on recognizing abnormalities. Upon completion, students should be able to differentiate between normal and abnormal tissues and refer unusual findings to the dentist for diagnosis.

DEN-223 Dental Pharmacology

Prerequisites: None

2 0 0 2

0 0 9 3

1 0 0 1

0 0 6 2

2 0 0 2

0 0 12 4

2 0 0 2

Corequisites: Select one: BIO-163, BIO-165 or BIO-168

This course provides basic drug terminology, general principles of drug actions, dosages, routes of administration, adverse reactions, and basic principles of anesthesiology. Emphasis is placed on knowledge of drugs in overall understanding of patient histories and health status. Upon completion, students should be able to recognize that each patient's general health or drug usage may require modification of the treatment procedures.

*DEN-224 Materials and Procedures

1 3 0 2

Prerequisites: DEN-111 Corequisites: None

This course introduces the physical properties of materials and related procedures used in dentistry. Topics include restorative and preventative materials, fabrication of casts and appliances, and chair-side functions of the dental hygienist. Upon completion, students should be able to demonstrate proficiency in the laboratory and/or clinical application of routinely used dental materials and chair-side functions.

*DEN-230 Dental Hygiene Theory IV

1 0 0 1

Prerequisites: DEN-220 Corequisites: DEN-231

This course provides an opportunity to increase knowledge of the profession. Emphasis is placed on dental specialties, technological advances, and completion of a case study presentation. Upon completion, students should be able to demonstrate knowledge of various disciplines of dentistry, technological advances and principles of case presentations.

*DEN-231 Dental Hygiene Clinic IV

0 0 12 4

Prerequisites: DEN-221 Corequisites: DEN-230

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on periodontal maintenance and on treating patients with moderate to advanced/refractory periodontal disease. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

*DEN-232 Community Dental Health

2 3 0 3

Prerequisites: None Corequisites: None

This course provides a study of the principles and methods used in assessing, planning, implementing, and evaluating community dental health programs. Topics include epidemiology, research methodology, biostatistics, preventive dental care, dental health education, program planning, and financing and utilization of dental services. Upon completion, students should be able to assess, plan, implement, and evaluate a community dental health program.

*DEN-233 Professional Development

2 0 0 2

Prerequisites: None Corequisites: None

This course includes professional development, ethics, and jurisprudence with applications to practice management. Topics include conflict management, state laws, resumes, interviews, and legal liabilities as health care professionals. Upon completion, students should be able to demonstrate the ability to practice dental hygiene within established ethical standards and state laws.

Drafting

DFT-151 CAD I 2 3 3

Prerequisites: None Corequisites: None

This course introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting. Upon completion, students should be able to produce and plot a CAD drawing.

DFT-152 CAD II 2 3 3

Prerequisites: DFT-151 Corequisites: None

This course is a continuation of DFT 151. Topics include advanced two-dimensional, three-dimensional, and solid modeling and extended CAD applications. Upon completion, students should be able to generate and manage CAD drawings and models to produce engineering documents.

*DFT-153 CAD III 2 3 3

Prerequisites: DFT-151 Coreguisites: None

This course covers basic principles of three-dimensional CAD wireframe and surface models. Topics include user coordinate systems, three-dimensional viewpoints, three-dimensional wireframes, and surface components and viewpoints. Upon completion, students should be able to create and manipulate three-dimensional wireframe and surface models.

DFT-154 Intro Solid Modeling 2 3 3

Prerequisites: None Corequisites: None

This course in an introduction to basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering and analysis of solid models and creation of multi - view drawings. Upon completion, students should be able to use design techniques to create, edit, render and generate a multi - view drawing.

*DFT-170 Engineering Graphics 2 2 3

Prerequisites: None Corequisites: None

This course introduces basic engineering graphics skills and applications. Topics include sketching, selection and use of current methods and tools, and the use of engineering graphics applications. Upon completion, students should be able to demonstrate an understanding of basic engineering graphics principles and practices. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*DFT-254 Intermediate Solid Model/Render 2 3 3

Prerequisites: DFT-154 Corequisites: None

This course is a continuation of basic three-dimensional solid modeling and design software. Topics include advanced study of parametric design, creation, editing, rendering, and analysis of solid model assemblies and multi-view drawing generation. Upon completion, students should be able to use parametric design techniques to create and analyze the engineering design properties of a model assembly.

*DFT-259 CAD Project

Prerequisites: ARC-112 and ARC-113

Corequisites: None

This course is a capstone course experience for programs with a focus in computer-aided design. Emphasis is placed on the use of design principles and computer technology in planning, managing, and completing a design project. Upon completion, students should be able to plan and produce engineering documents of a design project, including solid models, working drawings, BOMs, annotations, and spreadsheets.

Digital Media Technology

DME-110 Intro to Digital Media

2 2 3

Prerequisites: None Corequisites: None

This course introduces students to key concepts, technologies, and issues related to digital media. Topics include emerging standards, key technologies and related design issues, terminology, media formats, career paths, and ethical issues. Upon completion, students should be able to demonstrate the various media formats that are used in digital media technology. Adobe Creative Cloud and other digital media tools may be used in the course.

DME-115 Graphic Design Tools

2 2 3

Prerequisites: None Corequisites: None

This course provides students with an introduction to creative expression and art/design techniques in a digital environment. Emphasis is placed on designing, creating, editing, and integrating, visual components consisting of bit-mapped and vector-based images, drawings, banners, text, simple animations, and multiple layers. Upon completion, students should be able to design and produce a range of visual products using digital processing techniques. Adobe Creative Cloud (Photoshop, Illustrator, InDesign) will be used in the course.

DME-120 Intro to Multimedia Appl

2 2 3

Prerequisites: C or better in DME-110, DME-115, and WEB-115

Corequisites: None

This course introduces storyboarding and multimedia application design. Topics include vector and bit-mapped graphics, interactive multimedia interfaces, layering techniques, image and animation libraries, and scripting. Upon completion, students should be able to produce basic high-quality interactive multimedia applications. Adobe Creative Cloud (Photoshop, Illustrator, Muse, Animate) and other emerging tools may be used in the course.

DME-130 Digital Animation I

2 2

Prerequisites: C or better in DME-110 and DME-115

Corequisites: None

This course introduces concepts for planning and developing animation sequences. Emphasis will be placed on review of digital animation concepts and exploration of various animation software packages. Upon completion, students should be able to produce simple animations. Adobe Creative Cloud (Photoshop, Illustrator, Animate) will be used in the course.

DME-140 Intro to Audio/Video Media

Prerequisites: C or better in DME-110 and DME-115

Corequisites: None

This course is designed to teach students how to manipulate digital and audio content for multimedia applications. Topics include format conversion and a review of current technologies and digital formats. Upon completion, students should be able to modify existing audio and video content to meet a range of production requirements associated with digital media applications. Adobe Creative Cloud (Audition, Premiere Pro, Photoshop) and Audacity will be used in the course.

DME-210 User Interface Design

2 2 3

2 2 3

Prerequisites: C or better in DME-110, DME-115, and DME-120

Corequisites: None

This course covers current design approaches and emerging standards related to the design and development of user interfaces. Emphasis is placed on conducting research, and analyzing and reviewing current practices in effective interface design. Upon completion, students should be able to intelligently discuss and evaluate new and existing digital media products in terms of the user interface. Adobe Creative Cloud (Photoshop, Illustrator, Comet) and other emerging tools may be used in the course.

DME-215 Adv Graphic Design Tools

2 2 3

Prerequisites: C or better in DME-115

Corequisites: None

This course provides students with advanced design techniques in a digital environment. Emphasis is placed on understanding principles of design and typography, and applying them effectively in projects. Upon completion, students should be able to design and produce a range of visual products using advanced digital design techniques and principles. Adobe Creative Cloud (Photoshop, Illustrator, InDesign) will be used in the course.

DME-220 Interactive Multimedia Prog

2 2 3

Prerequisites: C or better in DME-115, WEB-115, and DME-120

Corequisites: None

This course is designed to build on concepts developed in DME 120 and teaches students to apply custom programming to develop advanced applications and components. Emphasis is placed on scripting language functionalities associated with a variety of software packages. Upon completion, students should be able to produce advanced, high-quality interactive multimedia applications.

DME-230 Digital Animation II

2 2 3

Prerequisites: C or better in DME-115 and DME-130

Corequisites: None

This course introduces state-of-the-art 3D animation techniques and concepts. Emphasis is placed on utilizing the features of current animation software. Upon completion, students should be able to produce 3D animations as components of a multimedia application.

DME-240 Media Compression

2 2 3

Prerequisites: C or better in DME-110, DME-115, and DME-140

Corequisites: None

This course introduces software and usage of digital audio and video compression and streaming media technologies. Topics include compression techniques, file formats and Codecs, streaming media, streaming media services, and current and emerging trends. Upon completion, students should be able to utilize compressed media in a variety of video, web and multimedia applications. Adobe Creative Cloud (Photoshop, After Effects, Media Encoder) will be used in the course.

*DME- 260 Emerging Tech Digital Media

2 3

Prerequisites: C or better in DME-120, DME-130, and DME-210

Corequisites: None

This course provides students with the latest technologies and strategies in the field of digital media. Emphasis is placed on the evaluation of emerging digital media technologies and presenting those findings to the class. Upon completion, students should be able to critically analyze emerging digital media technologies and establish informed opinions.

*DME-270 Prof Pract Digital Media

2 2 3

Prerequisites: C or better in DME 120, DME 130, DME 210, and DME 215 Corequisites: None

This course introduces students to business skills needed to succeed in the digital media workplace. Topics include portfolio development, resume design, and preparation of media contacts. Upon completion, students should be able to prepare themselves and their work for a career in the digital media workplace. Adobe Creative Cloud and other software tools may be used in the course.

*DME-285 Systems Project

2 2

Prerequisites: C or better in DME 120, DME 130, DME 210, DME 215, and DME 220 $\,$

Corequisites: None

This course provides an opportunity to complete a significant digital media project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete, maintain and implement a digital media project. Adobe Creative Cloud and other software tools may be used in the course.

Economics

ECO-151 Survey of Economics

3 0 3

Prerequisites: None Corequisites: None

This course, for those who have not received credit for ECO 251 or 252, introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

*ECO-251 Prin of Microeconomics

3 0 3

Prerequisites: DMA-010-DMA 030 or MAT-003 Tier 1

Corequisites: None

This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

*ECO-252 Prin of Macroeconomics

0 3 EDU-145 Child Development II

Prerequisites: None Corequisites: None

Prerequisites: DMA-010-DMA-030 or MAT-003 Tier 1, and ECO-251

Corequisites: None

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Education

EDU-119 Intro to Early Child Education

4 0 4

Prerequisites: None Corequisites: None

This course introduces the foundations of early childhood education, the diverse educational settings for young children, professionalism and planning intentional developmentally appropriate experiences for each child. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to design a career/professional development plan, appropriate environments, schedules, and activity plans.

EDU-146 Child Guidance

3 0 3

Prerequisites: None Corequisites: None

This course introduces evidence-based strategies to build nurturing relationships with each child by applying principles and practical techniques to facilitate developmentally appropriate guidance. Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs. Upon completion, students should be able to demonstrate direct/indirect strategies to encourage social skills, self-regulation, emotional expression and positive behaviors while recognizing the relationship between children's social, emotional and cognitive development.

EDU-131 Child, Family, & Community

3 0 3

Prerequisites: None Corequisites: None

This course covers the development of partnerships among culturally, linguistically and ability diverse families, children, schools and communities through the use of evidence-based strategies. Emphasis is placed on developing skills and identifying benefits for establishing and supporting respectful relationships between diverse families, programs/schools, and community agencies/resources reflective of the NAEYC Code of Ethical Conduct and the Code of Ethics for North Carolina Educators. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children birth through adolescence, schools, and communities and demonstrate a variety of communication skills including appropriate use of technology to support every child.

EDU-151 Creative Activities

3 0 3

Prerequisites: None Corequisites: None

This course introduces developmentally supportive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and open-ended learning materials while applying NC Foundations for Early Learning and Development. Emphasis is placed on observation of process driven learning experiences in art, music, creative movement, dance, and dramatics for every young child age birth through eight, integrated through all domains and academic content. Upon completion, students should be able to examine, create, and adapt developmentally creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse.

EDU-144 Child Development I

3 0 3

0 3 EDU-153 Health, Safety and Nutrition

3 0 3

Prerequisites: None Corequisites: None

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Prerequisites: None Corequisites: None

This course covers promoting and maintaining the health and well-being of every child. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations. Upon completion, students should be able to apply knowledge of NC Foundations for Early Learning and Development for health, safety, nutritional needs and safe learning environments.

EDU-187 Teaching and Learning for All

Prerequisites: None Corequisites: None

This course introduces students to knowledge, concepts, and best practices needed to provide developmentally appropriate, effective, inclusive, and culturally responsive educational experiences in the classroom. Topics include growth and development, learning theory, student motivation, teaching diverse learners, classroom management, inclusive environments, student-centered practices, instructional strategies, teaching methodologies, observation/assessment techniques, educational planning, reflective practice, collaboration, cultural competence, ethics, professionalism, and leadership. Upon completion, students should be able to identify the knowledge, skills, roles, and responsibilities of an effective educator as defined by state and national professional teaching standards.

EDU-216 Foundations of Education

Prerequisites: None Corequisites: None

This course introduces the examination of the American educational systems and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in birth through grade 12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

EDU-221 Children with Exceptionalities

Prerequisites: Take one set Set 1: EDU-144 and EDU-145 Set 2: PSY-244 and PSY-245 Corequisites: None

This course covers atypical patterns of child development, inclusive/diverse settings, evidenced-based educational/ family plans, differentiated instruction, adaptive materials, and assistive technology. Emphasis is placed on the characteristics of exceptionalities and delays, early intervention/special education, transitions, observation, developmental screening, formative assessment of children, and collaborating with families and community partners. Upon completion, students should be able to recognize diverse abilities, describe the referral process, identify community resources, explain the importance of collaboration with families/professionals, and develop appropriate strategies/adaptations to support children in all environments with best practices as defined by laws, policies and the NC Foundations for Early Learning and Development. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

EDU-234 Infants, Toddlers, and Twos

Prerequisites: EDU-119 Corequisites: None

This course covers the development of high-quality, individualized, responsive/engaging relationships and experiences for infants, toddlers, and twos. Emphasis is placed on typical and atypical child development, working with diverse families to provide positive, supportive, and engaging early learning activities and interactions through field experiences and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate responsive curriculum planning, respectful relationships and exposure to a variety of developmentally appropriate experiences/materials that support a foundation for healthy development and growth of culturally, linguistically and ability diverse children birth to 36 months.

EDU-248 Developmental Delays

Prerequisites: Take one set Set 1: EDU-144 and EDU-145 Set 2: PSY-244 and PSY-245 Corequisites: None

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This course covers the causes and assessment of developmental delays and individualized instruction and curriculum for children with developmental delays. Emphasis is placed on definition, characteristics, assessment, educational strategies, inclusion, family involvement, and services for children with developmental delays. Upon completion, students should be able to identify, assess, and plan educational intervention strategies for children with developmental delays and their families.

EDU-250 Teacher Licensure Preparation

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Prerequisites: None Corequisites: Take one set: Set 1: ENG-111 and MAT-143 Set 2: ENG-111 and MAT-152 Set 3: ENG-111 and MAT-171

This course provides information and strategies necessary for transfer to a teacher licensure program at a senior institution. Topics include entry level teacher licensure exam preparation, performance based assessment systems, requirements for entry into teacher education programs, the process to become a licensed teacher in North Carolina, and professionalism including expectations within the field of education. Upon completion, students should be able to utilize educational terminology and demonstrate knowledge of teacher licensure processes including exam preparation, technology based portfolio assessment, and secondary admissions processes to the school of education at a senior institution.

EDU-259 Curriculum Planning

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Prerequisites: EDU-119 Corequisites: None

This course is designed to focus on using content knowledge to build developmentally effective approaches for culturally/linguistically/ability diverse young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use curriculum to plan for individual/group needs.

EDU-261 Early Childhood Admin I

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Prerequisites: None Corequisites: EDU-119

This course introduces principles and practices essential to preparing and supporting child care administrators. Topics include program philosophy, policies and procedures, NC Child Care Law and Rules, business planning, personnel and fiscal management, and NAEYC Code of Ethical Conduct Supplement for Early Childhood Program Administration. Upon completion, students should be able to articulate a developmentally appropriate program philosophy, locate current state licensing regulations, analyze a business plan and examine comprehensive program policies and procedures.

EDU-262 Early Childhood Admin II

Prerequisites: EDU-119 and EDU-261

Corequisites: None

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

EDU-279 Literacy Develop and Instruct

Prerequisites: None

Corequisites: None

This course is designed to provide students with concepts and skills of literacy development, instructional methods/materials and assessment techniques needed to provide scientifically-based, systematic reading and writing instruction into educational practice. Topics include literacy concepts, reading and writing development, developmentally appropriate pedagogy, culturally-responsive instruction, standards-based outcomes, lesson planning, formative/summative assessment, recognizing reading difficulties, research-based interventions, authentic learning experiences, classroom implementation, and reflective practice. Upon completion, students should be able to plan, implement, assess, evaluate, and demonstrate developmentally appropriate literacy instruction aligned to the NC Standard Course of Study and other state and national standards.

EDU-280 Language/Literacy Experiences

Prerequisites: None Corequisites: None

This course provides evidence-based strategies for enhancing language and literacy experiences that align with NC Foundations for Early Learning and Development. Topics include developmental sequences for children's emergent receptive and expressive language, print concepts, appropriate observations/assessments, literacy enriched environments, quality selection of diverse literature, interactive media, and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate language and literacy experiences for children who are culturally, linguistically and ability diverse.

EDU-284 Early Child Capstone Prac

Prerequisites: Take one set

Set 1: EDU-119, EDU-144, EDU-145, EDU-146, and EDU-151 Set 2: EDU-119, EDU-146, EDU-151, PSY-244, and PSY-245, Set 3: EDU-119, EDU-144, EDU-146, EDU-151, and PSY-245, Set 4: EDU-119, EDU-145, EDU-146, EDU-151, and PSY-244,

Corequisites: None

This course is designed to allow students to demonstrate acquired skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to apply NC Foundations for Early Learning and Development to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors, including the use of appropriate technology, as indicated by assignments and onsite faculty assessments.

Engineering

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EGR-110 Intro to Engineering Tech

Prerequisites: None Corequisites: None

This course introduces general topics relevant to engineering technology. Topics include career assessment, professional ethics, critical thinking and problem solving, usage of college resources for study and research, and using tools for engineering computations. Upon completion, students should be able to choose a career option in engineering technology and utilize college resources to meet their educational goals.

EGR-125 Appl Software for Tech

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Prerequisites: None Coreauisites: None

This course introduces personal computer software and teaches students how to customize the software for technical applications. Emphasis is placed on the use of common office applications software such as spreadsheets, word processing, graphics and Internet access. Upon completion, students should be able to demonstrate competency in using applications software to solve technical problems and communicate the end results in text and graphical formats.

*EGR-150 Intro to Engineering

1 2 2

Prerequisite: None Corequisites: None

This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*EGR-212 Logic System Design I

3 0 3

Prerequisites: MAT-271 and PHY-251

Corequisites: None

This course provides an introduction to digital circuits and analysis. Topics include Boolean Algebra; mixed logic; design of combinational circuits; introduction to sequential systems; and MSI building blocks. Upon completion, students should be able to analyze and design digital circuits and systems. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*EGR-214 Num Methods for Engineers

3 0 3

Prerequisites: MAT-272 Corequisites: None

This course introduces contemporary methods and tools for numerical analysis in engineering. Topics include numerical methods in differentiation, integration, root-finding, linear and non-linear regressions. Upon completion, students should be able to demonstrate: basic structured programming concepts involving decision making,loops, functions, and parameter passing: common numerical methods used in engineering analysis; estimation of the amount of error inherent in different numerical methods; assessment of numerical efficiency; method assessment of numerical efficiency; and convergence properties of different numerical methods. This course has been approved for transfer under the CAA as a premajor and/ or elective course requirement.

*EGR-215 Network Theory I

0 3 *EGR-285 Design Project

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Prerequisites: MAT-271 and PHY-251 Corequisites: MAT-273 and PHY-252

This course provides an introduction to Kirchoff's laws and terminal equations, circuit analysis techniques and network theorems, transient and natural response, and state variable analysis. Topics include Kirchoff's laws, Ohm's law, circuit analysis techniques, Network theorems, singularity functions, transient and natural responses, power, and state variable analysis. Upon completion, students should be able to analyze electric circuits involving capacitors, inductors, and resistors to determine required parameters. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*EGR-216 Logic and Network Lab

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Prerequisites: MAT-272 and PHY-251 Corequisites: EGR-212 and EGR-215

This course provides laboratory experiments in network measurements and logic design and laboratory equipment and techniques. Topics include network measurement and applications, experimental logic design and introduction to laboratory equipment and techniques. Upon completion, students should be able to complete network measurement logic design and be able to use laboratory equipment with proper techniques. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*EGR-220 Engineering Statics

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Prerequisites: PHY-251 Corequisites: MAT-272

This course introduces the concepts of engineering based on forces in equilibrium. Topics include concentrated forces, distributed forces, forces due to friction and inertia as they apply to machines, structures, and systems. Upon completion, students should be able to solve problems which require the ability to analyze systems of forces in static equilibrium. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*EGR-228 Intro to Solid Mechanics

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Prerequisites: EGR-220 Corequisites: None

This course provides an introduction to engineering theory of deformable solids and applications. Topics include stress and deformation resulting from axial, torsion, and bending loads; shear and moment diagrams; Mohr's circle of stress; and strain and buckling of columns. Upon completion, students should be able to analyze solids subject to various forces and design systems using a variety of materials. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

*EGR-250 Statics/Strength of Mater

4 3 5

Prerequisites: MAT-121 or MAT-171

Corequisites: None

This course includes vector analysis, equilibrium of force systems, friction, sectional properties, stress/strain, and deformation. Topics include resultants and components of forces, moments and couples, free-body diagrams, shear and moment diagrams, trusses, frames, beams, columns, connections, and combined stresses. Upon completion, students should be able to analyze simple structures.

Proroquisitos: Department Chair Ann

Prerequisites: Department Chair Approval

Corequisites: None

This course provides the opportunity to design an instructorapproved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate projects.

Electrical

ELC-111 Intro to Electricity

2 2 3

Prerequisites: None Corequisites: None

This course introduces the fundamental concepts of electricity and test equipment to nonelectrical/electronic majors. Topics include basic DC and AC principles (voltage, resistance, current, impedance); components (resistors, inductors, and capacitors); power; and operation of test equipment. Upon completion, students should be able to construct and analyze simple DC and AC circuits using electrical test equipment.

ELC-113 Residential Wiring

264

Prerequisites: None Corequisites: None

This course introduces the care/usage of tools and materials used in residential electrical installations and the requirements of the National Electrical Code (NEC). Topics include NEC, electrical safety, and electrical print reading; planning, layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should c orbe able to properly install conduits, wiring, and electrical distribution equipment associated with residential electrical installations.

*ELC-115 Industrial Wiring

26

Prerequisites: None Corequisites: None

This course covers layout, planning, and installation of wiring systems in industrial facilities. Emphasis is placed on industrial wiring methods and materials. Upon completion, students should be able to install industrial systems and equipment.

*ELC-117 Motors and Controls

2 6 4

Prerequisites: Select one: AHR-111 or ELC-111

Corequisites: None

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

ELC-118 National Electrical Code

1 2 2

Prerequisites: None

Corequisites: ELC-113 or ELC-115

This course covers the use of the current National Electrical Code (NEC). Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.

ELC-127 Software for Technicians

1 3 2

Prerequisites: None Corequisites: None

This course introduces computer software which can be used to solve electrical/electronic problems. Topics include electrical/electronic calculations and applications. Upon completion, students should be able to utilize a personal computer for electrical/electronic-related applications.

urse Descriptions

ELC-128 Intro to PLC

Prerequisites: None Corequisites: None

This course introduces the programmable logic controller (PLC) and its associated applications. Topics include ladder logic diagrams, input/output modules, power supplies, surge protection, selection/installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to install PLCs and create simple programs.

ELC-131 Circuit Analysis I

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Prerequisites: ELC-111 Corequisites: MAT-121

This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment.

*ELC-131A Circuit Analysis I Lab

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Prerequisites: None Corequisites: ELC-131

This course provides laboratory assignments as applied to fundamental principles of DC/AC electricity. Emphasis is placed on measurements and evaluation of electrical components, devices and circuits. Upon completion, the students will gain hands-on experience by measuring voltage, current, and opposition to current flow utilizing various meters and test equipment.

ELC-132 Electrical Drawings

1 3

Prerequisites: None Corequisites: None

This course introduces the technical documentation that is typically found or used in the industrial environment. Topics include interpretation of service manuals, freehand sketching of lines, orthographic views and dimensions, and blueprint reading. Upon completion, students should be able to interpret technical documents and blueprints and use basic drafting skills to prepare usable field drawings.

*ELC-213 Instrumentation

3 2

Prerequisites: Select one: AHR-111 or ELC-111

Corequisites: None

This course covers the fundamentals of instrumentation used in industry. Emphasis is placed on electric, electronic, and pneumatic instruments. Upon completion, students should be able to design, install, maintain, and calibrate instrumentation.

ELC-220 Photovoltaic Sys Tech

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Prerequisites: ALT-120 Corequisites: ELC-111

This course introduces the concepts, tools, techniques, and materials needed to understand systems that convert solar energy into electricity with photovoltaic (PV) technologies. Topics include site analysis for system integration, building codes, and advances in photovoltaic technology. Upon completion, students should be able to demonstrate an understanding of the principles of photovoltaic technology and current applications.

ELC-221 Advanced PV Sys Designs

Prerequisites: ELC-220 Corequisites: None

This course introduces specific elements in photovoltaic (pv) systems technologies including efficiency, modules, inverters, charge controllers, batteries, and system installation. Topics include National Electrical Code (NEC), electrical specifications, photovoltaic system components, array design and power integration requirements that combine to form a unified structure. Upon completion, students should be able to demonstrate an understanding of various photovoltaic designs and proper installation of NEC compliant solar electric power systems.

ELC-225 Data Communication/Mfg

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Prerequisites: None Corequisites: None

This course provides the fundamentals of data communications in a manufacturing environment. Emphasis is placed on the principles and techniques required to implement data transfer between automated systems and plant information systems using current technology and devices. Upon completion, students should be able to plan, design, and implement data communication systems within the manufacturing environment.

*ELC-228 PLC Applications

26

Prerequisites: ELC-128 Coreauisites: None

This course covers programming and applications of programmable logic controllers. Emphasis is placed on programming techniques, networking, specialty I/O modules, and system troubleshooting. Upon completion, students should be able to specify, implement, and maintain complex PLC controlled systems.

Electronics

*ELN-131 Analog Electronics I

3 3 4

Prerequisites: ELC-131 Corequisites: None

This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog circuits using appropriate techniques and test equipment.

*ELN-132 Analog Electronics II

3 3 4

Prerequisites: ELN-131 Corequisites: None

This course covers additional applications of analog electronic circuits with an emphasis on analog and mixed signal integrated circuits (IC). Topics include amplification, filtering, oscillation, voltage regulation, and other analog circuits. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog electronic circuits using appropriate techniques and test equipment.

*ELN-133 Digital Electronics

Prerequisites: ELC-111 Corequisites: None

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, MSI and LSI circuits, AC/DC converters, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.

*ELN-133A Digital Electronics Lab

Prerequisites: None Corequisites: ELN-133

This course is laboratory to accompany ELN 133. Emphasis is placed on laboratory experiences which enhance the materials presented in ELN 133 and which provide practical experience. Upon completion, students should be able to demonstrate a general understanding of digital fundamentals.

ELN-150 CAD for Electronics

Prerequisites: None Corequisites: None

This course introduces computer-aided drafting (CAD) with an emphasis on applications in the electronics field. Topics include electronics industry standards (symbols, schematic diagrams, and layouts); drawing electronic circuit diagrams; and specialized electronic drafting practices and components such as resistors, capacitors, and ICs. Upon completion, students should be able to prepare electronic drawings with CAD software.

*ELN-152 Fabrication Techniques

Prerequisites: None Corequisites: None

This course covers the fabrication methods required to create a prototype product from the initial circuit design. Topics include CAD, layout, sheet metal working, component selection, wire wrapping, PC board layout and construction, reverse engineering, soldering, and other related topics. Upon completion, students should be able to design and construct an electronic product with all its associated documentation.

*ELN-232 Introduction to Microprocessors

Prerequisites: ELN-133 Corequisites: None

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include assembly language programming, bus architecture, bus cycle types, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

*ELN-234 Communication Systems

Prerequisites: ELN-131 Corequisites: None

This course introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications. Upon completion, students should be able to interpret analog and digital communication circuit diagrams, analyze transmitter and receiver circuits, and use appropriate communication test equipment.

Emergency Medical Science

*EMS-110 EMT

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Prerequisites: Enrollment in EMS program

Corequisites: None

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification.

*EMS-122 EMS Clinical Practicum I

0 0 3 1

Prerequisites: EMS-110 Corequisites: EMS-130

This course provides the introductory hospital clinical experience for the paramedic student. Emphasis is placed on mastering fundamental paramedic skills. Upon completion, students should be able to demonstrate competency with fundamental paramedic level skills. Current N.C. EMT certification is required for students enrolling in this course.

*EMS-130 Pharmacology

3 3 0 4

Prerequisites: EMS-110, MAT-110, and ENG-111

Corequisites: EMS-122

This course introduces the fundamental principles of pharmacology and medication administration and is required for paramedic certification. Topics include medical terminology, pharmacological concepts, weights, measures, drug calculations, vascular access for fluids and medication administration and legislation. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology.

*EMS-131 Advanced Airway Management

1 2 0 2

Prerequisites: EMS-110 Corequisites: None

This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics must meet current guidelines for advanced airway management in the pre-hospital setting. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.

*EMS-140 Rescue Scene Management

1 3 0 2

Prerequisites: Enrollment in EMS program

Corequisites: None

This course introduces rescue scene management. Topics include response to hazardous material conditions, incident command, and extrication of patients from a variety of situations. Upon completion, students should be able to recognize and manage rescue operations based upon initial and follow-up scene assessment.

*EMS-150 Emergency Vehicles & EMS Comm

1 3 0 2

Prerequisites: Enrollment in EMS program

Corequisites: None

This course examines the principles governing maintenance of emergency vehicles and EMS communication equipment and is required for paramedic certification. Topics include applicable motor vehicle laws affecting emergency vehicle operation, defensive driving, collision avoidance techniques, communication systems, and information management systems. Upon completion, students should have a basic knowledge of emergency vehicles, maintenance, and communication needs.

*EMS-160 Cardiology I

Prerequisites: Enrollment in EMS program, EMS-110

Corequisites: None

This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and rhythm interpretation. Upon completion, students should be able to recognize and interpret rhythms.

*EMS-220 Cardiology II

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Prerequisites: EMS-122, EMS-130, and EMS-160

Corequisites: EMS-221

This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include assessment and treatment of cardiac emergencies, cardiac pharmacology, and patient care. Upon completion, students should be able to manage the cardiac patient.

*EMS-221 EMS Clinical Practicum II

0 0 6 2

Prerequisites: EMS-121 or EMS-122

Corequisites: EMS-220

This course provides clinical experiences in the hospital and/ or field. Emphasis is placed on increasing the proficiency of students' skills and abilities in patient assessments and the delivery of care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.

*EMS-231 EMS Clinical Pract III

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Prerequisites: EMS-130 and EMS-221

Corequisites: None

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on enhancing the students' skills and abilities in providing advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.

*EMS-240 Patients W/ Special Challenges

1 2 0 2

Prerequisites: EMS-122 and EMS-130

Corequisites: None

This course includes concepts of crisis intervention and techniques of interacting with patients with special challenges and is required for paramedic certification. Topics include appropriate intervention and interaction for neglected, abused, terminally ill, chronically ill, technology assisted, bariatric, physically challenged, mentally challenged, or assaulted patients as well as behavioral emergencies. Upon completion, students should be able to recognize and manage the care of patients with special challenges.

*EMS-241 EMS Clinical Practicum IV

0 0 12 4

Prerequisites: EMS-130 and EMS-231

Corequisites: None

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on mastering the skills/competencies required of the paramedic providing advanced-level care. Upon completion, students should be able to provide advanced-level patient care as an entry-level paramedic.

*EMS-250 Medical Emergencies

3 3 0 4

Prerequisites: EMS-122 and EMS-130

Corequisites: None

This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include appropriate interventions/treatments for disorders/diseases/injuries affecting the following systems: respiratory, neurological, abdominal/gastrointestinal, endocrine, genitourinary, musculoskeletal, and immunological as well as toxicology, infectious diseases and diseases of the eyes, ears, nose and throat. Upon completion, students should be able to recognize, assess and manage the care of frequently encountered medical conditions based upon initial patient assessment.

*EMS-260 Trauma Emergencies

1 3 0 2

Prereguisites: EMS-122 and EMS-130

Corequisites: None

This course provides in-depth study of trauma including pharmacological interventions for conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include an overview of thoracic, abdominal, genitourinary, orthopedic, neurological, and multi-system trauma, soft tissue trauma of the head, neck, and face as well as environmental emergencies. Upon completion, students should be able to recognize and manage trauma situations based upon patient assessment and should adhere to standards of care.

*EMS-270 Life Span Emergencies

3 3 0 4

Prerequisites: EMS-122 and EMS-130

Corequisites: None

This course covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death required for paramedic certification. Topics include gynecological, obstetrical, neonatal, pediatric, and geriatric emergencies and pharmacological therapeutics. Upon completion, students should be able to recognize and treat age-specific emergencies.

*EMS-280 EMS Bridging Course

2 2 0 3

Prerequisites: Enrollment in EMS Bridge Program

Corequisites: None

This course is designed to provide currently credentialed state or national Paramedic students with the most current education trends in Paramedic Practice. Emphasis is placed on transitions in healthcare. Upon completion, students should be able to integrate emerging trends in pre-hospital care.

*EMS-285 EMS Capstone

1 3 0 2

Prerequisites: EMS-220, EMS-231, EMS-250, and EMS-260

Corequisites: EMS-241

This course provides an opportunity to demonstrate problemsolving skills as a team leader in simulated patient scenarios and is required for paramedic certification. Emphasis is placed on critical thinking, integration of didactic and psychomotor skills, and effective performance in simulated emergency situations. Upon completion, students should be able to recognize and appropriately respond to a variety of EMS related events.

Course Descriptions

English

ENG-011 Writing and Inquiry Support

1 2 2

Prerequisites: None Corequisites: None

This course is designed to support students in the development of skills necessary for success in ENG 111 by complementing, supporting, and reinforcing ENG 111 Student Learning Outcomes. Emphasis is placed on developing a growth mindset, expanding skills for use in active reading and writing processes, recognizing organizational relationships within texts from a variety of genres and formats, and employing appropriate technology when reading and composing texts. Upon completion, students should be able to apply active reading strategies to college-level texts and produce unified, well-developed writing using standard written English.

Freshman Composition

Prerequisites: DRE-097 or ENG-002

Corequisites: None

This course is designed to develop informative and business writing skills. Emphasis is placed on logical organization of writing, including effective introductions and conclusions, precise use of grammar, and appropriate selection and use of sources. Upon completion, students should be able to produce clear, concise, well-organized short papers.

ENG-111 Writing and Inquiry

Prerequisites: DRE-097 or ENG-002

Corequisites: ENG-011

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. This is a Universal General Education Transfer Component (UGETC) course that satisfies English Composition.

ENG-112 Writing/Research in the Disc

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Prerequisites: C or better in ENG-111

Corequisites: None

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines. This is a Universal General Education Transfer Component (UGETC) course that satisfies English Composition.

ENG-114 **Prof Research and Reporting**

3 0 3

Prerequisites: C or better in ENG-111

Corequisites: None

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. Students entering this course should be able to demonstrate in-depth knowledge in a technical field and should anticipate interdepartmental evaluation of course projects. This course has been approved for transfer under the CAA as a general education course in English Composition.

ENG-125 **Creative Writing I**

Prerequisites: C or better in ENG-111

Corequisites: None

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. This course has been approved for transfer under the CAA as a premajor and/ or elective course requirement.

ENG-231 **American Literature I**

Prerequisites: C or better in ENG-112 or ENG-114

Corequisites: None

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

ENG-232 American Literature II

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Prerequisites: C or better in ENG-112 or ENG-114

Corequisites: None

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

ENG-241 **British Literature I**

0 3

Prerequisites: C or better in ENG-112 or ENG-114

Corequisites: None

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. Reading an eighteenth century novel is required. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

ENG-242 **British Literature II**

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Prerequisites: C or better in ENG-112 or ENG-114

Corequisites: None

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. Reading a nineteenth century novel is required. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

Emergency Preparedness

EPT-140 Emergency Management

Prerequisites: None Corequisites: None

This course covers the four phases of emergency management: mitigation, preparedness, response, and recovery. Topics include organizing for emergency management, coordinating for community resources, public sector liability, and the roles of government agencies at all levels. Upon completion, students should be able to demonstrate an understanding of comprehensive emergency management and the integrated emergency management system.

Fire Protection

FIP-120 Intro to Fire Protection

Prerequisites: None Corequisites: None

This course provides an overview of the history, development, methods, systems, and regulations as they apply to the fire protection field. Topics include history, evolution, statistics, suppression, organizations, careers, curriculum, and other related topics. Upon completion, students should be able to demonstrate a broad understanding of the fire protection field.

FIP-124 Fire Prevention & Public Ed

Prerequisites: None Corequisites: None

This course introduces fire prevention concepts as they relate to community and industrial operations referenced in NFPA standard 101. Topics include the development and maintenance of fire prevention programs, educational programs, and inspection programs. Upon completion, students should be able to research, develop, and present a fire safety program to a citizens or industrial group.

FIP-128 Detection & Investigation

Prerequisites: None Corequisites: None

This course covers procedures for determining the origin and cause of accidental and incendiary fires referenced in NFPA standard 921. Topics include collection and preservation of evidence, detection and determination of accelerants, courtroom procedure and testimony, and documentation of the fire scene. Upon completion, students should be able to conduct a competent fire investigation and present those findings to appropriate officials or equivalent.

FIP-132 Building Construction

Prerequisites: None Corequisites: None

This course covers the principles and practices reference in NFPA standard 220 related to various types of building construction, including residential and commercial, as impacted by fire conditions. Topics include types of construction and related elements, fire resistive aspects of construction materials, building codes, collapse, and other related topics. Upon completion, students should be able to understand and recognize various types of construction and their positive or negative aspects as related to fire conditions.

FIP-140 Industrial Fire Protection

Prerequisites: None Corequisites: None

3 0 3

This course covers fire protection systems in industrial facilities referenced in NFPA standard 1. Topics include applicable health and safety standards, insurance carrier regulations, other regulatory agencies, hazards of local industries, fire brigade operation, and loss prevention programs. Upon completion, students should be able to plan and evaluation an industrial facility's fire protection program.

FIP-152 Fire Protection Law

3 0 3

Prerequisites: None Corequisites: None

This course covers fire protection law as referenced in NFPA standard 1. Topics include legal terms, contracts, liability, review of case histories, and other related topics. Upon completion, students should be able to discuss laws, codes, and ordinances as they relate to fire protection.

FIP-220 Fire Fighting Strategies

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Prerequisites: None Corequisites: None

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This course provides preparation for command of initial incident operations involving emergencies within both the public and private sector referenced in NFPA standards 1561, 1710, and 1720. Topics include incident management, fireground tactics and strategies, incident safety, and command/control of emergency operations. Upon completion, students should be able to describe the initial incident system as it relates to operations involving various emergencies in fire and non-fire situations.

FIP-228 Local Govt Finance

3 0

Prerequisites: None Corequisites: None

This course introduces local governmental financial principles and practices. Topics include budget preparation and justification, revenue policies, statutory requirements, taxation, audits, and the economic climate. Upon completion, students should be able to comprehend the importance of finance as it applies to the operation of a department.

FIP-276 Managing Fire Services

0 3

Prerequisites: None Corequisites: None

This course provides an overview of fire department operative services referenced in NFPA standard 1021. Topics include finance, staffing, equipment, code enforcement, management information, specialized services, legal issues, planning, and other related topics. Upon completion, students should be able to understand concepts and apply fire department management and operations principles.

French

FRE-111 Elementary French I

3 0 3

Prerequisites: DRE-097, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

The numbers following course titles indicate class, lab, clinic/co-op/shop, and credit hours, respectively.

FRE-112 Elementary French II

Prerequisites: C or better in FRE-111

Corequisites: None

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

FRE-211 Intermediate French I

3 0

Prerequisites: C or better in FRE-112

Corequisites: None

This course provides a review and expansion of the essential skills of the French language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

FRE-212 Intermediate French II

3 0

Prerequisites: C or better in FRE-211

Corequisites: None

This course is a continuation of FRE 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

Film and Video Production

FVP-250 Production Specialties I

1 6 3

Prerequisites: None Corequisites: None

This course provides education and training through contextual learning in the film production areas of art department, camera, sound, grip, electric, locations, script, and continuity. Emphasis is placed on successful professional level interaction with other students and industry professionals through pre-production and initial production of an actual film/video project. Upon completion, students should demonstrate an understanding of the film/video pre-production and initial production process, and the relationship among the departments in these areas. Students will complete projects from the pre-production through post-production phase and Adobe Creative Cloud (Audition, Premiere, Media Encoder) and other audio/video tools may be used in this course.

Geology

GEL-111 Introductory Geology

32

Prerequisites: DRE 097, DRE 098, ENG 002 Tier 1, or C or better in ENG 110 or ENG 111

Corequisites: None

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences.

Geographic Information Systems

GIS-111 Introduction to GIS

2 3

Prerequisites: None Corequisites: None

This course introduces the hardware and software components of a Geographic Information System and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems. The ESRI software used in the course only works in a Windows environment. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

GIS-121 Georeferencing & Mapping

2 2 3

Prerequisites: C or better in GIS-111

Corequisites: None

This course introduces coordinate systems, fundamentals of surveying, and cartography. Topics include the theory, acquisition, and use of locational data using both continuous and discrete georeferencing methods. Upon completion, students should be able to identify appropriate coordinate systems for a situation and translate data into correct map form.

GIS-215 GIS Data Models

2 2 3

Prerequisites: C or better in GIS-111 or CEG-111

Corequisites: None

This course covers interpreting and understanding of a variety data formats available in GIS. Topics include the similarities and differences between data models as well as how data is treated differently within each format, to include the conversion of data between different environments. Upon completion, students should be able to demonstrate an understanding of the fundamentals of GIS data storage and interoperability.

Health

HEA-110 Personal Health/Wellness

3 0 3

Prerequisites: None Corequisites: None

This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

HEA-112 First Aid and CPR

1 2 2

Prerequisites: None Corequisites: None

This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Heavy Equipment Maintenance

*HET-110 Diesel Engines

3 9 6

Prerequisites: None Corequisites: None

This course introduces theory, design, terminology, and operating adjustments for diesel engines. Emphasis is placed on safety, theory of operation, inspection, measuring, and rebuilding diesel engines according to factory specifications. Upon completion, students should be able to measure, diagnose problems, and repair diesel engines.

*HET-114 Power Trains

3 6 5

Prerequisites: None Corequisites: None

This course introduces power transmission devices. Topics include function and operation of gears, chains, clutches, planetary gears, drive lines, differentials, and transmissions. Upon completion, students should be able to identify, research specifications, repair, and adjust power train components.

*HET-115 Electronic Engines

2 3

Prerequisites: None Corequisites: None

This course introduces the principles of electronically controlled diesel engines. Emphasis is placed on testing and adjusting diesel engines in accordance with manufacturers' specifications. Upon completion, students should be able to diagnose, test, and calibrate electronically controlled diesel engines.

*HET-119 Mechanical Transmissions

2 2 3

Prerequisites: None Corequisites: None

This course introduces the operating principles of mechanical medium and heavy duty truck transmissions. Topics include multiple counter shafts, power take-offs, sliding idler clutches, and friction clutches. Upon completion, students should be able to diagnose, inspect, and repair mechanical transmissions.

*HET-125 Preventive Maintenance

1 3 2

Prerequisites: None Corequisites: None

This course introduces preventive maintenance practices used on medium and heavy duty vehicles and rolling assemblies. Topics include preventive maintenance schedules, services, DOT rules and regulations, and road-ability. Upon completion, students should be able to set up and follow a preventive maintenance schedule as directed by manufacturers.

*HET-231 Med/Hvy Duty Brake Systems 1

Prerequisites: None Corequisites: None

This course covers the theory and repair of braking systems used in medium and heavy duty vehicles. Topics include air, hydraulic, and ABS system diagnosis and repair. Upon completion, students should be able to troubleshoot, adjust, and repair braking systems on medium and heavy duty vehicles.

*HET-233 Suspension and Steering

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Prerequisites: None Corequisites: None

This course introduces the theory and principles of medium and heavy duty steering and suspension systems. Topics include wheel and tire problems, frame members, fifth wheel, bearings, and coupling systems. Upon completion, students should be able to troubleshoot, adjust, and repair suspension and steering components on medium and heavy duty vehicles.

Health and Fitness Science

HFS-110 Exercise Science

0

Prerequisites: None Corequisites: None

This course is a survey of scientific principles, methodologies, and research as applied to exercise and physical adaptations to exercise. Topics include the basic elements of kinesiology, biomechanics, and motor learning. Upon completion, students should be able to identify and describe physiological responses and adaptations to exercise.

HFS-111 Fitness & Exercise Testing I

2 4

Prerequisites: None Corequisites: None

This course introduces the student to graded exercise testing. Topics include various exercise testing protocols with methods for prescribing exercise programs based on exercise tolerance tests and the use of various equipment and protocols. Upon completion, students should be able to conduct specific exercise tests and the use of various equipment.

HFS-114 Physical Fit Theory & Instr

40

Prerequisites: HFS 110 Corequisites: None

This course provides information about related components of fitness and general information about the industry. Topics include the study of the components of fitness, theories of exercise and fitness, and information about the industry. Upon completion, students should be able to identify fitness components and demonstrate these in an exercise setting.

HFS-116 Pvnt & Care Exer Injuries

2 2

Prerequisites: None Corequisites: None

This course provides information about the care and prevention of exercise injuries. Topics include proper procedures, prevention techniques, and on-site care of injuries. Upon completion, students should be able to demonstrate the knowledge and skills necessary to prevent and care for exercise related injuries.

HFS-118 Fitness Facility Mgmt

4 0

Prerequisites: None Corequisites: None

This course provides information about the management and operation of health and fitness facilities and programs. Topics include human resources, sales and marketing, member retention, financial management, facility design and maintenance, and risk management. Upon completion, students should be able to demonstrate the knowledge and skills necessary to effectively manage a fitness facility.

HFS-120 Group Exer Instruction

2 2 3

Prerequisites: PSF-110 Corequisites: None

This course introduces the concepts and guidelines of instructing exercise classes. Topics include program designs, working with special populations, and principles of teaching and monitoring physical activity. Upon completion, students should be able to demonstrate basic skills in instructing an exercise class and monitoring workout intensity.

HFS-210 Personal Training

Prerequisites: HFS-110 and HFS-111

Corequisites: None

This course introduces the student to the aspects of personal (one-on-one) training. Topics include training systems, marketing, and program development. Upon completion, students should be able to demonstrate personal training techniques and competencies of same.

HFS-212 Exercise Programming

2 2 3

2 2 3

Prerequisites: HFS-110 Corequisites: None

This course provides information about organizing, scheduling, and implementation of physical fitness programs. Topics include programming for various age groups, competitive activities and special events, and evaluating programs. Upon completion, students should be able to organize and implement exercise activities in a competent manner.

HFS-218 Lifestyle Chng & Wellness

3 2 4

Prerequisites: HFS-111 Corequisites: None

This course introduces health risk appraisals and their application to lifestyle changes. Topics include nutrition, weight control, stress management, and the principles of exercise. Upon completion, students should be able to conduct health risk appraisals and apply behavior modification techniques in a fitness setting.

History

HIS-111 World Civilizations I

0

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

HIS-112 World Civilizations II

3 0

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

HIS-131 American History I

3 0

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

HIS-132 American History II

0 3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

HIS-236 North Carolina History

3 0 3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Hotel & Restaurant Management

*HRM-110 Intro to Hosp & Tourism

0 3

Prerequisites: None Corequisites: None

This course covers the growth and progress of the hospitality industry. Topics include tourism, lodging, resorts, gaming, restaurants, foodservice and clubs. Upon completion, students should be able to demonstrate an understanding of the background, context, and career opportunities that exist within the hospitality industry.

*HRM-120 Front Office Procedures

3 0 3

Prerequisites: None Corequisites: HRM-120A

This course introduces a systematic approach to lodging front office procedures. Topics include reservations, registration, guest satisfaction, occupancy and revenue management, security, interdepartmental communications, and related guest services. Upon completion, students should be able to demonstrate a basic understanding of current front office operating systems, including efficient and courteous guest service.

*HRM-124 Guest Service Management

2 2 3

Prerequisites: None Corequisites: CUL-142

This course is designed to provide an introduction to the culture of dining room service management. Emphasis is placed on the dignity and psychology of service work, dining room organization/infrastructure, service delivery, and modeling management roles in a dining room environment. Upon completion, students should be able to demonstrate an understanding of the guest/server dynamic and apply these principles in a dining room setting.

Course Description

*HRM-135 Facilities Management

Prerequisites: None Corequisites: None

This course introduces the basic elements of planning and designing hospitality facilities, including environmental impacts, maintenance, and upkeep. Topics include equipment and plant preventive maintenance, engineering, interior design, space utilization, remodeling and expansion, and traffic and work flow patterns. Upon completion, students should be able to demonstrate an understanding of the planning, design, national certification, and maintenance of hospitality physical plants and equipment.

*HRM-140 Legal Issues-Hospitality

Prerequisites: None Corequisites: None

This course covers the rights and responsibilities that the law grants to or imposes upon the hospitality industry. Topics include federal and state regulations, historical and current practices, safety and security, risk management, loss prevention, relevant torts, and contracts. Upon completion, students should be able to demonstrate an understanding of the legal system and the concepts necessary to prevent or minimize organizational liability.

*HRM-180 The Business of Tourism

Prerequisites: HRM-110 Corequisites: None

This course covers concepts related to tourism through a global business perspective, examining management, marketing, and finance issues related to the tourism industry. Topics include marketing to the traveling public, delivering quality tourism services, the economic, environmental and political impacts of tourism and capturing technology's competitive advantages in the tourism industry. Upon completion, students should be able to demonstrate an understanding of an integrated model of tourism that addresses consumer behavior, service quality and the future of tourism.

*HRM-215 Restaurant Management

Prerequisites: CUL-135, CUL-135A and HRM-124

Corequisites: HRM-215A

This course provides an overview of the responsibilities and activities encountered in managing a food and beverage operation. Topics include planning, organization, accounting, marketing, trends, and human resources from an integrated managerial viewpoint. Upon completion, students should be able to demonstrate an understanding of the operation of a restaurant. Students will also examine menu design, layout, marketing, concept development, target consumers and trends.

*HRM-215A Restaurant Management Lab 0

Prerequisites: CUL-135, CUL-135A and HRM-124

Corequisites: HRM-215

This course provides a laboratory experience for enhancing student skills in the responsibilities and activities encountered in managing a food and beverage operation. Emphasis is placed on practical applications of planning, organization, accounting, marketing, trends, and human resources from an integrated managerial viewpoint. Upon completion, students should be able to demonstrate a basic proficiency in restaurant management operations which may include overseeing and execution of production and service. Students will analyze menu mix and guest feedback as it relates to the overall success of foodservice operations.

*HRM-220 Cost Control-Food & Bev

Prerequisites: None Corequisites: None

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3 0

This course introduces controls and accounting procedures as applied to costs in the hospitality industry. Topics include reports, cost control, planning and forecasting, control systems, financial statements, operational efficiencies, labor controls and scheduling. Upon completion, students should be able to demonstrate an understanding of food, beverage, and labor cost control systems for operational troubleshooting and problem solving.

*HRM-225 Beverage Management

3 0 3

Prerequisites: None Corequisites: None

This course introduces the management of beverages served in hospitality operations. Topics include history and trends; service, procurement and storage; knowledge and control of wines and fermented/distilled beverages; and non-alcoholic beverages, coffees, and teas. Upon completion, students should be able to demonstrate an understanding of responsible alcohol service and the knowledge of beverages consumed in a hospitality operation.

*HRM-240 Marketing for Hospitality

3 0 3

Prerequisites: None Corequisites: None

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This course covers planning, organizing, directing, and analyzing the results of marketing programs for the hospitality industry. Emphasis is placed on target marketing, marketing mix, analysis, product and image development, use of current media, sales planning, advertising, public relations, and collateral materials. Upon completion, students should be able to apply the marketing process as it relates to the hospitality industry.

*HRM-245 Human Resource Mgmt-Hosp

0 3

Prerequisites: None Corequisites: None

This course introduces a systematic approach to human resource management in the hospitality industry. Topics include training/development, staffing, selection, hiring, recruitment, evaluation, benefit administration, employee relations, labor regulations/laws, discipline, motivation, productivity, shift management, contract employees and organizational culture. Upon completion, students should be able to apply human resource management skills for the hospitality industry.

*HRM-280 Mgmt Problems-Hospitality

303

Prerequisites: CUL-142, HRM-110, HRM-120, HRM-210, HRM-215, HRM-220, HRM-225, HRM-240, HRM-245 and WBL-112

Corequisites: None

2

This course is designed to introduce students to timely issues within the hospitality industry and is intended to move students into a managerial mindset. Emphasis is placed on problem-solving skills using currently available resources. Upon completion, students should be able to demonstrate knowledge of how hospitality management principles may be applied to real challenges facing industry managers.

Human Services

*HSE-110 Intro to Human Services

2 2 0 3

Prerequisites: None Corequisites: None

This course introduces the human services field, including the history, agencies, roles, and careers. Topics include personal/professional characteristics, diverse populations, community resources, disciplines in the field, systems, ethical standards, and major theoretical and treatment approaches. Upon completion, students should be able to identify the knowledge, skills, and roles of the human services worker. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*HSE-112 Group Process I

1 2 0 2

Prerequisites: None Corequisites: None

This course introduces interpersonal concepts and group dynamics. Emphasis is placed on self-awareness facilitated by experiential learning in small groups with analysis of personal experiences and the behavior of others. Upon completion, students should be able to show competence in identifying and explaining how people are influenced by their interactions in group settings. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*HSE-123 Interviewing Techniques

2 2 0 3

Prerequisites: None Corequisites: None

This course covers the purpose, structure, focus, and techniques employed in effective interviewing. Emphasis is placed on observing, attending, listening, responding, recording, and summarizing of personal histories with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to function in the helping relationship. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*HSE-125 Counseling

2 2 0 3

Prerequisites: None Corequisites: None

This course covers the major approaches to psychotherapy and counseling, including theory, characteristics, and techniques. Emphasis is placed on facilitation of self-exploration, problem-solving, decision-making, and personal growth. Upon completion, students should be able to understand various theories of counseling and demonstrate counseling techniques. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*HSE-210 Human Services Issues

2 0 0 2

Prerequisites: None Corequisites: None

This course covers current issues and trends in the field of human services. Emphasis is placed on contemporary topics with relevance to special issues in a multifaceted field. Upon completion, students should be able to integrate the knowledge, skills, and experiences gained in classroom and clinical experiences with emerging trends in the field.

*HSE-220 Case Management

2 2 1 3

Prerequisites: HSE-110 Corequisites: None

This course covers the variety of tasks associated with professional case management. Topics include treatment planning, needs assessment, referral procedures, and follow-up and integration of services. Upon completion, students should be able to effectively manage the care of the whole person from initial contact through termination of services. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification

*HSE-225 Crisis Intervention

3 0 0 3

Prerequisites: None Corequisites: None

This course introduces the basic theories and principles of crisis intervention. Emphasis is placed on identifying and demonstrating appropriate and differential techniques for intervening in various crisis situations. Upon completion, students should be able to assess crisis situations and respond appropriately. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*HSE-227 Children & Adol in Crisis

3 0 0 3

Prerequisites: None Corequisites: None

This course covers the crises affecting children and adolescents in contemporary society. Emphasis is placed on abuse and neglect, suicide and murder, dysfunctional family living, poverty, and violence. Upon completion, students should be able to identify and discuss intervention strategies and available services for the major contemporary crises affecting children and adolescents. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*HSE-240 Issues in Client Services

3 0 0 3

Prerequisites: None Corequisites: None

This course introduces systems of professional standards, values, and issues in the helping professions. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics relative to multicultural counseling and research. Upon completion, students should be able to understand and discuss multiple ethical issues applicable to counseling and apply various decision-making models to current issues. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

Humanities

HUM-110 Technology and Society

3 0

Prerequisites: None Corequisites: None

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

HUM-115 **Critical Thinking**

3

Prerequisites: None Corequisites: None

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111 Corequisites: None

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. This course has been approved for transfer under the CAA as a general education course in Humanities/ Fine Arts.

This course introduces hydraulic theory and applications as applied to mobile equipment. Topics include component studies such as pumps, motors, valves, cylinders, filters, reservoirs, lines, and fittings. Upon completion, students should be able to identify, diagnose, test, and repair hydraulic systems using schematics and technical manuals.

HUM-120 Cultural Studies

3 0

Prerequisites: None Corequisites: None

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

HUM-160 Introduction to Film

2 2 3

Prerequisites: C or better in ENG-110 or ENG-111

Corequisites: None

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

Human Values and Meaning

3 0 3

Prerequisites: C or better in ENG-111 and successful completion of 40 credit hours in the AA or AS program

Corequisites: None

This course presents some major dimensions of human experience as reflected in art, music, literature, philosophy, and history. Topics include the search for identity, the quest for knowledge, the need for love, the individual and society, and the meaning of life. Upon completion, students should be able to recognize interdisciplinary connections and distinguish between open and closed questions and between narrative and scientific models of understanding. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts and is restricted to students in the AA, AS, and AFA programs who have completed a minimum of 40 credit hours.

Hydraulics

*HYD-110 Hydraulics/Pneumatics I

2 3

Prerequisites: DMA-050 or MAT-003 Tier 2, or placement

Corequisites: None

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting.

Industrial Science

*HYD-112 Hydraulics-Med/Heavy Duty

*ISC-112 **Industrial Safety**

2 0 2

Prerequisites: None Corequisites: None

This course introduces the principles of industrial safety. Emphasis is placed on industrial safety and OSHA regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.

*ISC-121 **Envir Health & Safety**

0 3

Prerequisites: None Corequisites: None

This course covers workplace environmental, health, and safety concepts. Emphasis is placed on managing the implementation and enforcement of environmental health and safety regulations and on preventing accidents, injuries, and illnesses. Upon completion, students should be able to demonstrate an understanding of basic concepts of environmental health and safety.

*ISC-135 **Principles of Industrial Mgmt**

Prerequisites: None Corequisites: None

This course covers the managerial principles and practices required for organizations to succeed in modern industry, including quality and productivity improvement. Topics include the functions and roles of all levels of the management, organization design, planning and control of manufacturing operation, managing conflict, group dynamics, and problem solving skills. Upon completion, students should be able to demonstrate an understanding of management principles and integrate these principles into job situations.

Landscape Architecture Technology

*LAR-210 Prin of Landscape Arch

3 2

Prerequisites: DFT 151 Corequisites: None

This course introduces the overall principles of landscape design. Topics include principles of landscape design; installation, maintenance, and cost estimates; landscape plans, elevations, and sections; plant selection/lists; and other related topics. Upon completion, students should be able to prepare a simple set of landscape working drawings which are within accepted architectural standards.

Machining

MAC-121 Introduction to CNC

2 0

Prerequisites: None Corequisites: None

This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Students will learn computer skills necessary for machinists. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage.

MAC-122 CNC Turning

1 3 2

Prerequisites: BPR-111, MAC-121

Corequisites: None

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC turning centers.

MAC-124 CNC Milling

1 3 2 Prer

Prerequisites: BPR 111, MAC 121

Corequisites: None

This course introduces the manual programming, setup, and operation of CNC machining centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC machining centers.

MAC-141 Machining Applications I

2 6

Prerequisites: None Corequisites: None

This course provides an introduction to a variety of material-working processes that are common to the machining industry. Topics include safety, process-specific machining equipment, measurement devices, set-up and layout instruments, and common shop practices. Upon completion, students should be able to safely demonstrate basic machining operations, accurately measure components, and effectively use layout instruments.

MAC-142 Machining Applications II

2 6 4

Prerequisites: MAC-111 or MAC-141

Corequisites: None

This course provides instruction in the wide variety of processes associated with machining. Topics include safety, equipment set-up, holding fixtures, tooling, cutting speeds and depths, metal properties, and proper finishes. Upon completion, students should be able to safely demonstrate advanced machining operations, accurately measure components, and produce accurate components with a proper finish.

MAC-142A Machining Appl II Lab

0 6 2

Prerequisites: MAC 111 or MAC 141

Corequisites: MAC 142

This course provides laboratory instruction in the wide variety of processes associated with machining. Topics include safety, equipment setup, holding fixtures, tooling, cutting speeds and depths, metal properties, and proper finishes. Upon completion, students should be able to safely demonstrate advanced machining operations, accurately measure components, and produce accurate components with a proper finish.

MAC-143 Machining Appl III

2 6 4

Prerequisites: MAC-112 or MAC-142/MAC-142A

Corequisites: None

This course provides instruction in the field of advanced machining. Emphasis is placed on creating complex components, close-tolerance machining, precise measurement, and proper equipment usage. Upon completion, students should be able to demonstrate the ability to produce an accurately machined component with a quality finish using the proper machining process.

MAC-151 Machining Calculations

1 2 2

Prerequisites: None Corequisites: None

This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations.

MAC-152 Adv Machining Calc

1 2 2

Prerequisites: MAC 151 Corequisites: None

This course combines mathematical functions with practical machine shop applications and problems. Emphasis is placed on gear ratios, lead screws, indexing problems, and their applications in the machine shop. Upon completion, students should be able to calculate solutions to machining problems.

MAC-222 Advanced CNC Turning

1 3 2

Prerequisites: MAC-122 Coreguisites: None

This course covers advanced methods in setup and operation of CNC turning centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC turning centers.

MAC-224 Advanced CNC Milling

3 2

Prerequisites: MAC-124 Corequisites: None

This course covers advanced methods in setup and operation of CNC machining centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC machining centers.

MAC-226 CNC EDM Machining

1 3 2

Prerequisites: BPR-111, MAC-121

Corequisites: None

This course introduces the programming, setup, and operation of CNC electrical discharge machines. Topics include programming formats, control functions, program editing, production of parts, and inspection. Upon completion, students should be able to manufacture simple parts using CNC electrical discharge machines.

MAC-241 Jigs and Fixtures I

2 6 4

Prerequisites: BPR-111, MAC-112 (or MAC-142/MAC-142A), MAC-122, and MAC-124

Corequisites: None

This course introduces the application and use of jigs and fixtures. Emphasis is placed on design and manufacture of simple jigs and fixtures. Upon completion, students should be able to design and build simple jigs and fixtures.

MAC-245 **Mold Construction I**

2

Prerequisites: BPR-111, MAC-122, MAC-124, and MAC-226 Corequisites: None This course introduces the principles of mold making. Topics

include types, construction, and application of molds. Upon completion, students should be able to design and build simple molds.

Production Procedures MAC-248

2

6

Prerequisites: MAC-111 or MAC-141, MAC-121

Corequisites: None

This course covers product planning and control and scheduling and routing of operations. Topics include costeffective production methods, dimensional and statistical quality control, and the tooling and machines required for production. Upon completion, students should be able to plan, set up, and produce cost-effective quality machined parts.

Mathematics

MAT-003 **Transition Math**

6

Prerequisites: None Corequisites: None

This course provides an opportunity to customize foundational math content in specific math areas and will include developing a growth mindset. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in their gateway level math courses by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

MAT-010 Math Measurement & Literacy Su

2

Prerequisites: None

Coreguisites: MAT-152 or MAT-171

This course provides an opportunity to customize foundational math content specific to Math Measurement & Literacy. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Math Measurement & Literacy by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

MAT-021 Algebra/Trigonometry I Support

2

2

Prerequisites: None Corequisites: None

This course provides an opportunity to customize foundational math content specific to Algebra and Trigonometry I. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Algebra/Trigonometry I by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

MAT-043 **Quantitative Literacy Support**

Prerequisites: None Corequisites: None

This course provides an opportunity to customize foundational math content specific to Quantitative Literacy. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Quantitative Literacy by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

MAT-052 **Statistical Methods I Support**

2

Prerequisites: None Corequisites: None

This course provides an opportunity to customize foundational math content specific to Statistical Methods I. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Statistical Methods I by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

MAT-071 **Precalculus Algebra Support**

4 2

Prerequisites: None Corequisites: None

This course provides an opportunity to customize foundational math content specific to Precalculus Algebra. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Precalculus Algebra by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

MAT-110 **Mathematical Measurement**

2 3

Prerequisites: Take one set

Set 1: DMA-010, DMA-020, and DMA-030

Set 2: DMA-025 Set 3: MAT-003 Corequisites: MAT-010

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

MAT-121 Algebra/Trigonometry I

2 3 MAT-152 Statistical Methods 1

Prerequisites: Take one set of MAT or placement and one set of ENG or

Prerequisites: DRE-098 or C or better in ENG-110 or ENG-111 or placement and

Take one set

Set 1: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050 Set 2: DMA-010, DMA-020, DMA-030, and DMA-045

Set 3: DMA-025, DMA-040, and DMA-050

Set 4: DMA-025 and DMA-045

Set 5: MAT-003 Corequisites: MAT-021

This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include the properties of plane and solid geometry, area and volume, and basic proportion applications; simplification, evaluation, and solving of algebraic equations and inequalities and radical functions; complex numbers; right triangle trigonometry; and systems of equations. Upon completion, students should be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

MAT-122 Algebra/Trigonometry II

2 2 3

2

Prerequisites: C or better in MAT-121

Corequisites: None

This course is designed to cover concepts in algebra, function analysis, and trigonometry. Topics include exponential and logarithmic functions, transformations of functions, Law of Sines, Law of Cosines, vectors, and statistics. Upon completion, students should be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

MAT-143 Quantitative Literacy

2 2 3

Prerequisites: Take one set of MAT or placement and one set of ENG or placement:

MAT Set 1: DMA-010, DMA-020, DMA-030

MAT Set 2: DMA-025 MAT Set 3: MAT-003 ENG Set 1: DRE-098 ENG Set 2: ENG-002

ENG Set 3: C or better in ENG-110 ENG Set 4: C or better in ENG-111

Corequisites: MAT-043

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students will be consumers of quantitative information with the ability to use data to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life. This is a Universal General Education Transfer Component (UGETC) course that satisfies Mathematics (Quantitative) for the Associate in Arts.

placement:

MAT Set 1: DMA-010, DMA-020, DMA-030

MAT Set 2: DMA-025 MAT Set 3: MAT-003 ENG Set 1: DRE-098 ENG Set 2: ENG-002

ENG Set 3: C or better in ENG-110 ENG Set 4: C or better in ENG-111

Corequisites: MAT-052

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results. This is a Universal General Education Transfer Component (UGETC) course that satisfies Mathematics (Quantitative) for the Associate in Arts.

MAT-171 Precalculus Algebra

3 2 4

Prerequisites: Take one set:

Set 1: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, DMA-060, DMA-070, and DMA-080

Set 2: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050, and DMA-065 Set 3: DMA-010, DMA-020, DMA-030, DMA-045, DMA-060, DMA 070, and DMA-080

Set 4: DMA-010, DMA-020, DMA-030, DMA-045, and DMA-065

Set 5: DMA-025, DMA-040, DMA-050, DMA-060, DMA-070, and DMA-080

Set 6: DMA-025, DMA-040, DMA-050, and DMA-065

Set 7: DMA-025, DMA-045, DMA-060, DMA-070, and DMA-080

Set 8: DMA-025, DMA-045, and DMA-065

Set 9: MAT-121 or placement

Set 10: MAT-003

Corequisites: MAT-001P

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology. This is a Universal General Education Transfer Component (UGETC) course that satisfies Mathematics.

MAT-172 Precalculus Trigonometry

3 2 4

Prerequisites: C or better in MAT 171 or placement

Corequisites: None

This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangle, vectors, polar coordinates, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology. This is a Universal General Education Transfer Component (UGETC) course that satisfies Mathematics for the Associate in Science.

ourse Descriptions

MAT-252 Statistical Methods II

Prerequisites: C or better in MAT-152

Corequisites: None

This course is designed to provide a technology-based treatment of multiple sample inferential statistics. Emphasis is placed on two sample hypothesis tests and confidence intervals, linear and multiple regression, analysis of variance, experimental design, and non-parametric techniques. Upon completion, students should be able to draw statistical inferences and communicate results on multiple sample data taken from business and health, social, natural, and applied sciences. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

MAT-263 Brief Calculus

3 2 4

2

Prerequisites: C or better in MAT-171

Corequisites: None

This course is designed to introduce concepts of differentiation and integration and their applications to solving problems. Topics include graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results effectively. This is a Universal General Education Transfer Component (UGETC) course that satisfies Mathematics for the Associate in Science.

MAT-271 Calculus I

3 2

Prerequisites: C or better in MAT-172

Corequisites: None

This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to derivative-related problems with and without technology. This is a Universal General Education Transfer Component (UGETC) course that satisfies Mathematics for the Associate in Science.

MAT-272 Calculus II

3 2

Prerequisites: C or better in MAT-271

Corequisites: None

This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on the applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to integral-related problems with and without technology. This is a Universal General Education Transfer Component (UGETC) course that satisfies Mathematics for the Associate in Science.

MAT-273 Calculus III

2 4

Prerequisites: C or better in MAT-272

Corequisites: None

This is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, solid analytical geometry, vector valued functions, and line and surface integrals. Upon completion, students should be able to select and use appropriate models and techniques for finding the solution to multivariate-related problems with and without technology. This course has been approved for transfer under the CAA as a general education course in Mathematics.

MAT-280 Linear Algebra

2 2 3

Prerequisites: C or better in MAT-271

Corequisites: None

This course provides an introduction to linear algebra topics. Emphasis is placed on the development of abstract concepts and applications for vectors, systems of equations, matrices, determinants, vector spaces, multi-dimensional linear transformations, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to linear algebra-related problems with and without technology. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

MAT 285 Differential Equations

2 3

Prerequisites: C or better in MAT-272

Corequisites: None

This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and Laplace transforms. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to differential equations-related problems with and without technology. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

Mechanical

MEC-110 Introduction to CAD/CAM

2

Prerequisites: None Corequisites: None

This course introduces CAD/CAM. Emphasis is placed on transferring part geometry from CAD to CAM for the development of a CNC-ready program. Upon completion, students should be able to use CAD/CAM software to produce a CNC program.

*MEC-111 Machine Processes I

4 3

Prerequisites: None Corequisites: None

This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to safely machine simple parts to specified tolerances.

*MEC-145 Mfg Materials I

2 3 3

Prerequisites: None Corequisites: None

This course introduces a variety of manufacturing materials and common processing techniques. Emphasis is placed on the processing, testing, and application of materials such as wood, metals, plastics, ceramics, and composites. Upon completion, students should be able to demonstrate an understanding of fundamental engineering applications for a variety of materials, including their process capabilities and limitations.

*MEC-187 Composite Materials

Prerequisites: None Corequisites: None

This course introduces composite engineering materials. Topics include selection and processing of composites. Upon completion, students should be able to select appropriate materials and demonstrate knowledge in processing and curing of composites.

*MEC-231 Comp-Aided Manufact I

Prerequisites: BPR-111, MAC-122, and MAC-124

Corequisites: None

This course introduces computer-aided manufacturing (CAM) applications and concepts. Emphasis is placed on developing/defining part geometry and the processing information needed to manufacture parts. Upon completion, students should be able to demonstrate skills in defining part geometry, program development, and code generation using CAM software.

*MEC-232 Comp-Aided Manufact II

Prerequisites: MEC-231 Corequisites: None

This course provides an in-depth study of CAM applications and concepts. Emphasis is placed on the manufacturing of complex parts using computer-aided manufacturing software. Upon completion, students should be able to manufacture complex parts using CAM software.

*MEC-260 Fund of Machine Design

Prerequisites: EGR-250 Corequisites: None

This course introduces the fundamental principles of machine design. Topics include simple analysis of forces, moments, stresses, strains, friction, kinematics, and other considerations for designing machine elements. Upon completion, students should be able to analyze machine components and make component selections from manufacturers' catalogs.

Medical Assisting

*MED-110 Orientation to Med Assist

Prerequisites: None Corequisites: None

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.

*MED-116 Introduction to A & P

Prerequisites: None Corequisites: None

This course introduces basic anatomy and physiology. Emphasis is placed on the relationship between body structure and function and the procedures common to health care. Upon completion, students should be able to identify body system components and functions relating this knowledge to the delivery of health care.

*MED-118 Medical Law and Ethics

Prerequisites: None Corequisites: None

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed, consent, and bioethical issues. Emphasis is placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional.

*MED-120 Survey of Med Terminology

Prerequisites: None Corequisites: None

2 3

2 3 3

1 0 0 1

3 2 0 4

2 0 0 2

This course introduces the vocabulary, abbreviations, and symbols used in the language of medicine. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots. Upon completion, students should be able to pronounce, spell, and define accepted medical terms.

*MED-121 Medical Terminology I

3 0 0 3

Prerequisites: None Corequisites: None

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

*MED-122 Medical Terminology II

3 0 0 3

Prerequisites: MED-121 Corequisites: None

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

*MED-130 Admin Office Proc I

1 2 0 2

Prerequisites: Enrollment in Medical Assisting program.

Corequisites: None

This course introduces medical office administrative procedures. Topics include appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment.

*MED-131 Admin Office Proc II

1 2 0 2

Prerequisites: MED-130 Corequisites: None

This course provides medical office procedures in both economic and management skills. Topics include physical plant maintenance, equipment and supplies, liability coverage, medical economics, and introductory insurance procedures. Upon completion, students should be able to manage the economics of the medical office and supervise personnel.

*MED-138 Infection/Hazard Control

2 0 0 2

Prerequisites: None Corequisites: None

This course introduces the student to infection and hazard control procedures necessary for the healthcare worker. Topics include introduction to microbiology, practical infection control, sterilization and monitoring, chemical disinfectants, aseptic technique, infectious diseases, OSH standards, and applicable North Carolina laws. Upon completion, students should be able to: understand infectious diseases, disease transmission, infection control procedures, biohazard management, OSHA standards, and applicable North Carolina laws.

*MED-140 Exam Room Procedures I

3 4 0 5

Prerequisites: MED-110, MED-116, MED-138 and Enrollment in the Medical Assisting program

Corequisites: None This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting

with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures.

*MED-150 Laboratory Procedures I

3 4 0 5

Prerequisites: Enrollment in the Medical Assisting program, MED-122, MED-138

Corequisites: None

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics.

*MED-182 CPR First Aid & Emergency

1 2 0 2

Prerequisites: Enrollment In the Medical Assisting program

Corequisites: None

This course provides the basic knowledge and skills necessary to perform basic CPR, first aid, and medical emergency care related to the clinical, home, office, and recreational setting. Emphasis is placed on triage, assessment, and proper management of emergency care. Upon completion, students should be able to demonstrate basic CPR, first aid, and medical emergency care.

*MED-230 Admin Office Proc III

1 2 0 2

Prerequisites: MED-131 Corequisites: None

This course provides advanced medical office administrative procedures. Emphasis is placed on management skills including personnel supervision, practice management, public relations, and insurance coding. Upon completion, students should be able to exhibit advanced managerial medical assisting skills.

*MED-240 Exam Room Procedures II

3 4 0 5

Prerequisites: MED-140 Corequisites: None

This course is designed to expand and build upon skills presented in MED 140. Emphasis is placed on advanced exam room procedures. Upon completion, students should be able to demonstrate enhanced competence in selected exam room procedures.

*MED-260 MED Clinical Practicum

0 0 15 5

Prerequisites: MED-240 Corequisites: None

This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional.

*MED-262 Clinical Perspectives

Prerequisites: None Corequisites: MED-260

This course is designed to explore personal and occupational responsibilities of the practicing medical assistant. Emphasis is placed on problems encountered during externships and development of problem-solving skills. Upon completion, students should be able to demonstrate courteous and diplomatic behavior when solving problems in the medical facility.

*MED-270 Symptomatology

2 2 0 3

1 0 0 1

Prerequisites: None

Corequisites: MED-131 and MED-140

This course covers the study of disease symptoms and the appropriate actions taken by medical assistants in a medical facility in relation to these symptoms. Emphasis is placed on interviewing skills and appropriate triage, preparing patients for procedures, and screening test results. Upon completion, students should be able to recognize how certain symptoms relate to specific diseases, recognize emergency situations, and take appropriate actions.

*MED-272 Drug Therapy

3 0 0 3

Prerequisites: None

Corequisites: MED-131 and MED-140

This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.

*MED-274 Diet Therapy/Nutrition

3 0 0 3

Prerequisites: Enrollment in the Medical Assisting program

Corequisites: None

This course introduces the basic principles of nutrition as they relate to health and disease. Topics include basic nutrients, physiology, dietary deficiencies, weight management, and therapeutic nutrition in wellness and disease. Upon completion, students should be able to interpret clinical and dietary data and provide patient counseling and education.

Marketing and Retailing

Principles of Marketing MKT-120

3 0 3

Prerequisites: None Corequisites: None

This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making.

MKT-121 Retailing

0

Prerequisites: None Corequisites: None

This course examines the role of retailing in the economy. Topics include the development of present retail structure, functions performed, effective operations, and managerial problems resulting from current economic and social trends. Upon completion, students should be able to demonstrate an understanding of the basic principles of retailing.

MKT-122 **Visual Merchandising**

Prerequisites: None Corequisites: None

This course introduces basic layout design and commercial display in retail and service organizations. Topics include an analysis of display as a visual merchandising medium and an examination of the principles and applications of display and design. Upon completion, students should be able to plan, build, and evaluate designs and displays.

MKT-123 **Fundamentals of Selling**

Prerequisites: None Corequisites: None

This course is designed to emphasize the necessity of selling skills in a modern business environment. Emphasis is placed on sales techniques involved in various types of selling situations. Upon completion, students should be able to demonstrate an understanding of the techniques covered.

Advertising and Sales Promotion

Prerequisites: None Corequisites: None

This course covers the elements of advertising and sales promotion in the business environment. Topics include advertising and sales promotion appeals, selection of media, use of advertising and sales promotion as a marketing tool, and means of testing effectiveness. Upon completion, students should be able to demonstrate an understanding of the concepts covered through application.

Consumer Behavior

Prerequisites: None Corequisites: None

This course is designed to describe consumer behavior as applied to the exchange processes involved in acquiring, consuming, and disposing of goods and services. Topics include an analysis of basic and environmental determinants of consumer behavior with emphasis on the decision-making process. Upon completion, students should be able to analyze concepts related to the study of the individual consumer.

MKT-223 **Customer Service**

Prerequisites: None Corequisites: None

This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.

MKT-225 **Marketing Research**

Prerequisites: MKT-120 Corequisites: None

This course provides information for decision making by providing guidance in developing, analyzing, and using data. Emphasis is placed on marketing research as a tool in decision making. Upon completion, students should be able to design and conduct a marketing research project and interpret the results.

*MKT-227 Marketing Applications

Prerequisites: MKT-120 and MKT-123

Corequisites: None

This course extends the study of diverse marketing strategies. Emphasis is placed on case studies and small-group projects involving research or planning. Upon completion, students should be able to effectively participate in the formulation of a marketing strategy.

MKT-229 **Special Events Production**

Prerequisites: None Corequisites: None

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0 3 This course introduces the different objectives of various special events and the procedures and elements necessary for successful promotional activity. Emphasis is placed on planning, budgeting, promoting, and coordinating activities. Upon completion, students should be able to utilize the elements studied in the production of special events.

MKT-232 **Social Media Marketing**

Prerequisites: None

Corequisites: None

This course is designed to build students' social media marketing skills by utilizing projects that give students hands on experience implementing social media marketing strategies. Topics include integrating different social media technologies into a marketing plan, creating social media marketing campaigns, and applying appropriate social media tools. Upon completion, students should be able to use social media technologies to create and improve marketing efforts for businesses.

Medical Laboratory Technology

*MLT-110 Intro to MLT

2 3 0 3

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Prerequisites: Enrollment in the Medical Laboratory Technology program Corequisites: None

This course is designed to introduce all aspects of the medical laboratory profession. Topics include health care/laboratory organization, professional ethics, basic laboratory techniques, safety, quality assurance, and specimen collection. Upon completion, students should be able to demonstrate a basic understanding of laboratory operations and be able to perform basic laboratory skills.

*MLT-111 **Urinalysis & Body Fluids**

1 3 0 2

Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-110

Corequisites: BIO 163 or approved substitution

This course introduces the laboratory analysis of urine and body fluids. Topics include physical, chemical, and microscopic examination of the urine and body fluids. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting urinalysis and body fluid tests.

*MLT-120 Hematology/Hemostasis I

3 3 0 4

Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-110 and BIO-163 or approved BIO substitution

Coreguisites: MLT-126, MLT-130, and MLT-240

This course introduces the theory and technology used in analyzing blood cells and the study of hemostasis. Topics include hematology, hemostasis, and related laboratory testing. Upon completion, students should be able to demonstrate theoretical comprehension of hematology/hemostasis, perform diagnostic techniques, and correlate laboratory findings with disorders.

*MLT-126 Immunology and Serology

1 2 0 2

Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-110 and BIO-163 or approved BIO substitution

Corequisites: MLT-120, MLT-130, and MLT-240

This course introduces the immune system and response and basic concepts of antigens, antibodies, and their reactions. Emphasis is placed on basic principles of immunologic and serodiagnostic techniques and concepts of cellular and humoral immunity in health and disease. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing and interpreting routine immunologic and serodiagnostic procedures.

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*MLT-127 **Transfusion Medicine**

2 3 0 3

Prerequisites: Enrollment in the Medical Laboratory Technology program,

MLT Practicum I1

MLT-126, MLT-127, and MLT-252

This course provides entry-level clinical laboratory experience.

Emphasis is placed on technique, accuracy, and precision. Upon

completion, students should be able to demonstrate entry-

level competence on final clinical evaluations. Concentration

Corequisites: None

and MLT-126 Corequisites: None

This course introduces the blood group systems and their applications in transfusion medicine. Emphasis is placed on blood bank techniques including blood grouping and typing, pre-transfusion testing, donor selection and processing, and blood component preparation and therapy. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing/interpreting routine blood bank procedures and recognizing/resolving common problems.

Prerequisites: Enrollment in the Medical Laboratory Technology program

Clinical Chemistry I *MLT-130 3 3 0 4

Prerequisites: Enrollment in the Medical Laboratory Technology program,

CHM-130, and CHM-130A Corequisites: MLT-120, MLT-126, and MLT-240

This course introduces the quantitative analysis of blood and body fluids and their variations in health and disease. Topics include clinical biochemistry, methodologies, instrumentation, and quality control. Upon completion, students should be able to demonstrate theoretical comprehension of clinical chemistry, perform diagnostic techniques, and correlate laboratory findings with disorders.

*MLT-140 Introduction to Microbiology 2 3 0 3

Prerequisites: Enrollment in the Medical Laboratory Technology program Corequisites: None

This course is designed to introduce basic techniques and safety procedures in clinical microbiology. Emphasis is placed on the morphology and identification of common pathogenic organisms, aseptic technique, staining techniques, and usage of common media. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting basic clinical microbiology procedures.

*MLT-215 Professional Issues

Prerequisites: Enrollment in the Medical Laboratory Technology program Corequisites: None

This course surveys professional issues in preparation for career entry. Emphasis is placed on work readiness and theoretical concepts in microbiology, immunohematology, hematology, and clinical chemistry. Upon completion, students should be able to demonstrate competence in career entrylevel areas and be prepared for the national certification examination.

*MLT-240 Special Clin Microbiology 2 3 0 3

Prerequisites: MLT-140

Coreguisites: MLT-120, MLT-126, and MLT-130

This course is designed to introduce special techniques in clinical microbiology. Emphasis is placed on advanced areas in microbiology. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting specialized clinical microbiology procedures.

*MLT-252 MLT Practicum I

Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-120, MLT-126, MLT-130, MLT-240, BIO-163 or approved BIO substitution, CHM-130, and CHM-130A

Corequisites: MLT-127

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entrylevel competence on final clinical evaluations. Concentration will be in the area of Phlebotomy.

*MLT-255 **MLT Practicum I1**

will be in the area of blood banking.

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Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-140, MLT-240, and MLT-252

Corequisites: None

*MLT-254

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entrylevel competence on final clinical evaluations. Concentration will be in the area of microbiology.

MLT Practicum II1

Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-126, MLT-127, and MLT-252

Corequisites: None

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entrylevel competence on final clinical evaluations. Concentration will be in the area of donors and component therapy.

*MLT-265 **MLT Practicum II1**

Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-111, MLT-120, and MLT-252

Corequisites: None

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This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entrylevel competence on final clinical evaluations. Concentration will be in the area of hematology.

0 0 15 5 **MLT Practicum III1** *MLT-275

Prerequisites: Enrollment in the Medical Laboratory Technology program, MLT-130, and MLT-252

Corequisites: None

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entrylevel competence on final clinical evaluations. Concentration will be in the area of clinical chemistry.

Maintenance

*MNT-110 Intro to Maint Procedures

Prerequisites: None Corequisites: None

This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards.

Course Descriptions

*MNT-111 Maintenance Practices

Prerequisites: None Corequisites: None

This course provides in-depth theory and practical applications relating to predictive and preventive maintenance programs. Emphasis is placed on equipment failure analysis, maintenance management software, and techniques such as vibration and infrared analysis. Upon completion, students should be able to demonstrate an understanding of modern analytical and documentation methods.

*MNT-240 Industrial Equip Troubleshoot

Prerequisite: None Corequisites: None

This course covers the various service procedures, tools, instruments, and equipment necessary to analyze and repair typical industrial equipment. Emphasis is placed on electromechanical and fluid power equipment troubleshooting, calibration, and repair, including common techniques and procedures. Upon completion, students should be able to troubleshoot and repair industrial equipment.

Music

MUS-110 Music Appreciation

Prerequisites: None Corequisites: None

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

MUS-112 Introduction to Jazz

Prerequisites: None Corequisites: None

This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

MUS-121 Music Theory I

Prerequisites: None Coreguisites: None

This course provides an introduction to the musical elements of melody, rhythm, and harmony. Emphasis is placed upon the interaction of these elements through fundamental analysis and an introduction to part writing. Upon completion, students should be able to demonstrate understanding of melodic voice leading, rhythmic functions within simple and compound meters, and simple harmonic progressions. This course has been approved for transfer under the CAA as a premajor and/ or elective course requirement.

MUS-122 Music Theory II

Prerequisites: C or better in MUS-121

Corequisites: None

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This course provides a comprehensive study of diatonic harmony. Emphasis is placed on voice leading tasks, part writing, and analysis using various labeling systems. Upon completion, students should be able to demonstrate harmonic principles through four-voice part writing, recognize and label non-harmonic tones, analyze chords using Roman numerals, figured bass, and lead sheet symbols, and classify small-scale phrase structure and cadence types. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

MUS-125 Aural Skills I

0 2 1

Prerequisites: None Coreauisites: None

This course provides a comprehensive study of diatonic harmony. Emphasis is placed on voice leading tasks, part writing, and analysis using various labeling systems. Upon completion, students should be able to demonstrate harmonic principles through four-voice part writing, recognize and label non-harmonic tones, analyze chords using Roman numerals, figured bass, and lead sheet symbols, and classify small-scale phrase structure and cadence types. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

MUS-126 Aural Skills II

0 2 1

Prerequisites: C or better in MUS-125

Corequisites: None

This course provides a foundation in aural skills. Emphasis is placed on the development of sight singing and ear training skills in diatonic melody, diatonic harmonic progression, and rhythmic patterns. Upon completion, students should be able to fluently read music in treble and bass clefs; utilize any solmization system while sight singing simple diatonic melodies; identify elementary diatonic chord progressions; perform rhythms in simple and compound meters; and dictate diatonic melodic, diatonic harmonic, and advanced rhythmic patterns. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.

MUS-131 Chorus I

0 2 1

Prerequisites: None Corequisites: None

This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

MUS-132 Chorus II

0 2 1

Prerequisites: C or better in MUS-131

Corequisites: None

This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

MUS-231 Chorus III

0 2 1

Routing & Switching I

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Prerequisites: C or better in MUS-132

Corequisites: None

This course is a continuation of MUS 132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

MUS-232 Chorus IV

0 2 1

Prerequisites: C or better in MUS-231

Corequisites: None

This course is a continuation of MUS 231. Emphasis is placed on vocal techniques and the study of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

Networking Technology

NET-125 Introduction to Networks

1 4 3

Prerequisites: None Corequisites: None

This course introduces the networking field. Emphasis is placed on network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols. This is the first course in the Cisco Academy CCNA sequence and this course has been certified by the National Security Agency, National Information Assurance Education and Training Program as meeting NSTISSI No. 4011, National Training Standard for Information Systems Security (INFOSEC) Professionals and CNSSI No. 4013 Entry Level System Administrators (SA).

NET-126 Routing Basics

1 4 3

Prerequisites: C or better in NET-125

Corequisites: None

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs. This is the second course in the Cisco Academy CCNA sequence.

NET-175 Wireless Technology

2 2 3

Prerequisites: None Corequisites: None

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.

Prerequisites: : C or better in NET-126

Corequisites: None

NET-225

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in prerequisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP. This is the third course in the Cisco Academy CCNA sequence.

NET-289 Networking Project

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Prerequisites: C or better in CTI-110, CTI-120, and CTS-115

Corequisites: None

This course provides an opportunity to complete a significant networking project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete a project from the definition phase through implementation.

Network Operating Systems

NOS-110 Operating Systems Concepts

3

Prerequisites: None Corequisites: None

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is placed on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems. The course will include file management and simple user creation under at least two operating systems.

NOS-120 Linux/UNIX Single User

2 2 3

Prerequisites: C or better in NOS-110 or CET-211

Corequisites: None

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.

NOS-130 Windows Single User

2

Prerequisites: C or better in NOS-110 or CET-211

Corequisites: None

This course introduces operating system concepts for singleuser systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a singleuser environment.

NOS-220 Linux/UNIX Admin I

Prerequisites: C or better in NOS-120

Corequisites: None

This course introduces the Linux file system, group administration, and system hardware controls. Topics include installation, creation and maintaining file systems, NIS client and DHCP client configuration, NFS, SMB/Samba, Configure X, Gnome, KDE, basic memory, processes, and security. Upon completion, students should be able to perform system administration tasks including installation, configuring and attaching a new Linux workstation to an existing network.

NOS-230 Windows Administration I

2 2 3

2 2 3

Prerequisites: C or better in NOS-130

Corequisites: None

This course covers the installation and configuration of a Windows Server operating system. Emphasis is placed on the basic configuration of core network services, Active Directory and group policies. Upon completion, students should be able to install and configure a Windows Server operating system.

Nursing

*NUR-111 Intro to Health Concepts

4 6 6 8

Prerequisites: Admission into the Associate Degree Nursing Program

Corequisites: NUR 117, ACA 111

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*NUR-112 Health-Illness Concepts

3 0 6 5

Prerequisites: NUR-111, NUR-117

Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*NUR-113 Family Health Concepts

3 0 6 5

Prerequisites: ENG-111, NUR-111, NUR-112, NUR-114, NUR-117, PSY-150 or admission to ADN Advanced Placement Option

Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*NUR-114 Holistic Health Concepts

3 0 6 5

Prerequisites: NUR-111, NUR-117

Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*NUR-117 Pharmacology

1 3 0 2

Prerequisites: Admission into the ADN program

Corequisites: NUR-111

This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability, and pharmacokinetics, routes of medication administration, contraindications and side effects. Upon completion, students should be able to compute dosages and administer medication safely.

*NUR-211 Health Care Concepts

3 0 6 5

Prerequisites: NUR-111, NUR-117, NUR-114, NUR-112, ENG-111 or admission to ADN Advanced Placement Option

Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*NUR-212 Health System Concepts

3 0 6 5

Prerequisites: NUR-111, NUR-112, NUR-114

Corequisites None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

*NUR-213 Complex Health Concepts

4 3 15 10

Prerequisites: ENG-112 or ENG-114 Prerequisites: BIO-175 or BIO-275 Prerequisites: NUR-111 and PSY-241

Corequisites: NUR-112, NUR-113, NUR-114, NUR-211, NUR-212, and

HUM-115

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

Office Systems Technology

OST-122 Office Computations

2 2

Prerequisites: None Corequisites: None

This course covers the keypad touch method using the electronic calculator (10-key) and mathematical functions used in office applications. Topics may include budgets, discounts, purchasing, inventory, and petty cash. Upon completion, students should be able to solve a wide variety of numerical problems commonly encountered in an office setting.

The numbers following course titles indicate class, lab, clinic/co-op/shop, and credit hours, respectively.

OST-131 Keyboarding

Prerequisites: None Corequisites: None

This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system.

OST-132 Keyboard Skill Building 1 2 2

Prerequisites: OST-134 Corequisites: None

This course is designed to increase speed and improve accuracy in keyboarding. Emphasis is placed on diagnostic tests to identify accuracy and speed deficiencies followed by corrective drills. Upon completion, students should be able to keyboard rhythmically with greater accuracy and speed.

OST-134 **Text Entry & Formatting** 2

Prerequisites: None Corequisites: None

This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate employability.

2 **OST-136 Word Processing** 2

Prerequisites: None Corequisites: None

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment.

OST-137 Office Applications I 2 2

Prerequisites: None Corequisites: None

This course introduces the concepts and functions of software that meets the changing needs of the community. Emphasis is placed on the terminology and use of software through a hands-on approach. Upon completion, students should be able to use software in a business environment.

OST-141 **Med Office Terms I** 0 3 3

Prerequisites: None Corequisites: None

This course uses a language-structure approach to present the terminology and vocabulary that will be encountered in medical office settings. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in approximately one-half of the systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.

OST-142 Med Office Terms II 3 O 3

Prerequisites: MED 121 or OST 141

Corequisites: None

This course is a continuation of OST 141 and continues the study, using a language-structure approach, of medical office terminology and vocabulary. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in the remaining systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.

The numbers following course titles indicate class, lab, clinic/co-op/ shop, and credit hours, respectively.

OST-148 Med Ins & Billing

Prerequisites: MED 121 or OST 141

Corequisites: None

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2 2

This course introduces fundamentals of medical insurance and billing. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim.

*0ST-149 **Medical Legal Issues**

0 3

Prerequisites: None Corequisites: None

This course introduces the complex legal, moral, and ethical issues involved in providing healthcare services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior.

*0ST-153 **Office Finance Solutions**

2 2 3

Prerequisites: CIS 110, CIS 111, or OST 137

Corequisites: None

3

This course introduces basic bookkeeping concepts. Topics include entering data in accounts payable and receivable, keeping petty cash records, maintaining inventory, reconciling bank statements, running payroll, and generating simple financial reports. Upon completion, students should be able to demonstrate competence in the entry and manipulation of data to provide financial solutions for the office.

OST-164 Office Editing

Prerequisites: None Corequisites: None

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text.

OST-184 **Records Management**

2 2 3

Prerequisites: None Corequisites: None

This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system.

Office Publications Design

2

Prerequisites: OST-136 Corequisites: None

This course provides entry-level skills in using software with desktop publishing capabilities. Topics include principles of page layout, desktop publishing terminology and applications, and legal and ethical considerations of software use. Upon completion, students should be able to design and produce professional business documents and publications.

OST-243 Med Office Simulation

2 3

Prerequisites: OST-148 Corequisites: None

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, storing and retrieving information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections.

OST-247 Procedure Coding

Prerequisites: MED-121 or OST-141

Corequisites: None

This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS coding systems. Upon completion, students should be able to properly code procedures and services performed in a medical facility.

OST-248 Diagnostic Coding

2 2 3

2 2 3

Prerequisites: MED-121 or OST-141

Corequisites: None

This course provides an in-depth study of diagnostic coding. Emphasis is placed on ICD coding system. Upon completion, students should be able to properly code diagnoses in a medical facility.

*OST-286 Professional Development

303

Prerequisites: None Corequisites: None

This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, healthy life-styles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society.

*OST-289 Office Admin Capstone

2 2 3

Prerequisites: Take one set: Set 1: OST-134 and OST-164 Set 2: OST-136 and OST-164

Corequisites: None

This course is designed to be a capstone course for the office professional and provides a working knowledge of administrative office procedures. Emphasis is placed on written and oral communication skills, office software applications, office procedures, ethics, and professional development. Upon completion, students should be able to adapt in an office environment.

Occupational Therapy Assistant

*OTA-110 Fundamentals of OT

2 3 0 3

Prerequisites: None

Corequisites: BIO-165 or BIO-168

This course introduces occupational therapy (OT) theory, practice, philosophy, and principles. Emphasis is placed on providing a basic understanding of the profession as well as beginning to develop interaction and observation skills. Upon completion, students should be able to demonstrate basic understanding of the domain and practice of occupational therapy, practice settings and professional roles, OT terminology, activity analysis, principles, process, philosophies, and frames of reference.

*OTA-120 OT Media I

1 3 0 2

Prerequisites: None Corequisites: OTA-110

This course provides training in recognizing the therapeutic value and use of a wide variety of human occupations including basic activities of daily living, instrumental activities of daily living, rest and sleep, education, work, play, leisure, and social participation. Topics include the understanding of different teaching and learning methods and styles, the language of occupational therapy (OT), OT interventions including preparatory methods and tasks, and restorative and compensatory techniques. Upon completion, students should be able to analyze, design, select, and safely perform occupation related activities that would be therapeutic for various populations across the lifespan.

*OTA-130 Assessment Skills

2 2 0 2

Prerequisites: None Corequisites: OTA-110

This course provides training in appropriate and accurate assessment skills related to sensation, movement, vision, perception, cognition, emotions, and performance of basic activities of daily living and instrumental activities of daily living. Topics include physical and psychosocial factors affecting performance; and sensory, range of motion, strength, coordination, cognitive, visual-perceptual, self-care, and work-related assessments. Upon completion, students should be able to gather and share data for the purpose of screening and evaluation, administer selected assessments using appropriate procedures and protocols, and articulate the role of the occupational therapy assistant and occupational therapist in the screening and evaluation process.

*OTA-135 Kinesiology

0 3 0 1

Prerequisites: OTA-110 Corequisites: BIO-168

This course provides training in understanding and using principles of normal human movement. Topics include terminology, structures of the body associated with movement, principles of motion, analysis of movement, joint structure and its impact on motion, and muscle actions. Upon completion, students should be able to demonstrate proficiency in identifying terms associated with movement, motions, structures, normal ranges and directions of motion, and general principles of human movement; and apply biomechanical principles to safe and efficient functional mobility activities.

*OTA-140 Professional Skills I

0 3 0 1

Prerequisites: None Corequisites: OTA-110

This course introduces the roles and responsibilities of the occupational therapy assistant (OTA) and the occupational therapist (OT) in occupational therapy practice and facilitates development of professional behaviors and skills. Topics include professional ethics, supervisory roles, responsibilities, and collaborative professional relationships; credentialing, certification. and licensure: documentation. communicates the need and rationale for occupational therapy services; therapeutic use of self; and professional identity and professional behaviors; and observation skills. Upon completion, students should be able to demonstrate ethical behavior, discriminate between roles and responsibilities of the OTA and OT, and explain acceptable supervision and documentation.

*OTA-150 Peds Concepts & Interventions

2 3 0 3

Prerequisites: None

Corequisites: OTA-170 and PSY-241

This course provides knowledge and skills needed for working with children from birth through adolescence. Topics include review of normal growth and development, habituation of healthy habits/routines, the role of occupational therapy with caregivers/providers, understanding of common conditions and developmental delays; and the role of occupation in assessment, intervention planning and implementation with pediatric populations. Upon completion, students should be able to plan, implement, and modify appropriate interventions with children in their context and environment to promote engagement in occupation.

*OTA-161 Fieldwork I - Placement 1

0 0 3 1

Prerequisites: OTA-120 and OTA-140

Corequisites: OTA-130

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

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*OTA-162 Fieldwork I - Placement 2

Prerequisites: OTA-120 and OTA-140

Corequisites: OTA-130

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

*OTA-163 Fieldwork I - Placement 3

0 0 3 1

0 0 3 1

Prerequisites: OTA-120 and OTA-140

Corequisites: OTA-130

This course provides introductory-level clinical training opportunities. Emphasis is placed on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance/direction of fieldwork supervisors.

*OTA-170 Physical Conditions

2 3 0 3

Prerequisites: None Corequisites: OTA-130

This course is designed to provide knowledge and skills needed for working with individuals experiencing various medical conditions to help them achieve participation in life through engagement in occupation. Topics include medical terminology, common conditions, body functions that change with disease processes, applicable theories and principles, assessment and intervention priorities for commonly treated conditions. Upon completion, students should be able to recognize common symptoms, prioritize mental, neuromusculoskeletal and movement related functional problems, while providing for patient safety within the patient's context and environment.

*OTA-180 Psychosocial Conditions

2 3 0 3

Prerequisites: PSY-281 Coreauisites: OTA-130

This course is designed to provide knowledge and skills needed for working with individuals experiencing various psychosocial conditions to help them achieve participation in life through engagement in occupation. Topics include mental health conditions, applicable theories and principles, symptoms of dysfunction, assessment and treatment of individuals, planning and facilitating therapeutic groups, client safety, therapeutic use of self, and psychosocial aspects of practice. Upon completion, students should be able to effectively plan and conduct individual and group interventions for client conditions related to psychosocial dysfunction while recognizing contexts and environments that may also impact occupational performance.

*OTA-220 OT Media II

1 6 0 3

Prerequisites: OTA-120 and OTA-130

Corequisites: None

This course provides training in appropriate and accurate assessment and intervention skills related to orthotics, prosthetics, assistive devices, assistive technology, client mobility, and Americans with Disabilities Act (ADA) issues. Topics include ergonomics seating and positioning, community mobility, use of physical agent modalities, and technology in occupational therapy intervention. Upon completion, students should be able to demonstrate competency fabricating and utilizing orthotic and assistive devices, understanding ADA guidelines, and using technology for engagement in occupation.

*OTA-240 Professional Skills II

0 3 0 1

Prerequisites: OTA-140 Corequisites: None

This course covers professional development, supervisory relationships, involvement in the profession, and clinic management skills. Topics include clarification of roles and responsibilities, detailed examination of the supervisory process, participation in professional organizations, and the mechanics of assisting in clinic operations. Upon completion, students should be able to work effectively with a supervisor, plan and implement a professional activity, and perform routine clinic management tasks.

*OTA-245 Professional Skills III

0 3 0 1

Prerequisites: OTA-240 Corequisites: None

This course provides preparation for Fieldwork II experiences using skills/knowledge gained in OTA 140 and OTA 240 to promote integration into the professional community. Topics include interview skills, resume production, conflict resolution, professional presentations, participation in research activities, and completion of all forms required for Fieldwork II. Upon completion, students should be able to independently complete employment-seeking activities and provide in-service training.

*OTA-250 Adult Concepts & Interventions

2 3 0 3

Prerequisites: None

Corequisites: OTA-170, OTA-180, and PSY-241

This course provides knowledge and skills needed for working with adults through the lifespan. Emphasis is placed on identification and discussion of common changes associated with aging, disabilities and chronic diseases affecting this population, assessments and intervention, including developing healthy habits and routines, and the impact on participation in occupation in various settings. Upon completion, students should be able to plan, implement, and modify appropriate interventions with adults in their context and environment to promote engagement in occupations.

*OTA-260 Level II Fieldwork Placement 1

0 0 18 6

Prerequisites: None Corequisites: None

This course provides clinical experience under the direct supervision of experienced occupational therapists or occupational therapy assistant practitioners working in various practice settings. Emphasis is placed on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies for entry-level practice established by the curriculum, AOTA guidelines, and regulatory bodies.

*OTA-261 Level II Fieldwork Placement 2

0 0 18 6

Prerequisites: None Corequisites: None

This course provides the final clinical experience under the direct supervision of experienced occupational therapists or occupational therapy assistant practitioners working in various practice settings. Emphasis is placed on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies for entry-level practice established by the curriculum, AOTA guidelines, and regulatory bodies.

Course Descriptions

*OTA-280 Professional Transitions

Prerequisites: None

Corequisites: OTA-260 or OTA-261

This course provides closure to the educational program in conjunction with clinical experience. Emphasis is placed on portfolio development and presentation, program evaluation, analysis and synthesis of clinical experiences, and final preparation for the certification examination. Upon completion, students should be able to enter the occupational therapy (OT) workforce with an understanding of themselves as OT professionals, and with supportive documentation demonstrating progress toward meeting competencies set forth by the profession and regulatory bodies.

Phlebotomy

*PBT-100 Phlebotomy Technology

5 2 0 6

0 2 0 1

Prerequisites: Enrollment in the Phlebotomy Technology program and DRE-098 or ENG-002 Tier 2

Corequisites: None

This course provides instruction in the skills needed for the proper collection of blood and other specimens used for diagnostic testing. Emphasis is placed on ethics, legalities, medical terminology, safety and universal precautions, health care delivery systems, patient relations, anatomy and physiology, and specimen collection. Upon completion, students should be able to demonstrate competence in the theoretical comprehension of phlebotomy techniques. This is a certificate-level course.

*PBT-101 Phlebotomy Practicum

0 0 9 3

Prerequisites: Enrollment in the Phlebotomy Technology program and $\mbox{\rm PBT-}100$

Corequisites: None

This course provides supervised experience in the performance of venipuncture and microcollection techniques in a clinical facility. Emphasis is placed on patient interaction and application of universal precautions, proper collection techniques, special procedures, specimen handling, and data management. Upon completion, students should be able to safely perform procedures necessary for specimen collections on patients in various health care settings. This is a certificate-level course.

Physical Education

PED-110 Fit and Well for Life

1 2

Prerequisites: None Corequisites: None

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-117 Weight Training I

0 3 1

Prerequisites: None Corequisites: None

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-118 Weight Training II

Prerequisites: C or better in PED-117

Corequisites: None

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-119 Circuit Training

0 3 1

Prerequisites: None Corequisites: None

This course covers the skills necessary to participate in a developmental fitness program. Emphasis is placed on the circuit training method which involves a series of conditioning timed stations arranged for maximum benefit and variety. Upon completion, students should be able to understand and appreciate the role of circuit training as a means to develop fitness. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-120 Walking for Fitness

0 3 1

Prerequisites: None Corequisites: None

This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-122 Yoga I

0 2

Prerequisites: None Corequisites: None

This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-123 Yoga II

0 2 1

Prerequisites: C or better in PED-122

Corequisites: None

This course introduces more detailed aspects of the discipline of yoga. Topics include breathing and physical postures, relaxation, and mental concentration. Upon completion, students should be able to demonstrate advanced procedures of yoga. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-125 Self-Defense: Beginning

0 2 1

Prerequisites: None Corequisites: None

This course is designed to aid students in developing rudimentary skills in self-defense. Emphasis is placed on stances, blocks, punches, and kicks as well as non-physical means of self-defense. Upon completion, students should be able to demonstrate basic self-defense techniques of a physical and non-physical nature. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-126 Self-Defense: Intermediate

Prerequisites: C or better in PED-125

Corequisites: None

This course is designed to aid students in building on the techniques and skills developed in PED 125. Emphasis is placed on the appropriate psychological and physiological responses to various encounters. Upon completion, students should be able to demonstrate intermediate skills in self-defense stances, blocks, punches, and kick combinations. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-128 Golf - Beginning

2 1

2

1

Prerequisites: None Corequisites: None

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion, students should be able to perform the basic golf shots and demonstrate a knowledge of the rules and etiquette of golf. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-130 **Tennis - Beginning**

0 2

Prerequisites: None Corequisites: None

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

Volleyball - Beginning

2

Prerequisites: None Corequisites: None

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-145 **Basketball - Beginning**

2

Prerequisites: None Corequisites: None

This course covers the fundamentals of basketball. Emphasis is placed on skill development, knowledge of the rules, and basic game strategy. Upon completion, students should be able to participate in recreational basketball. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-171 **Nature Hiking**

2

Prerequisites: None Corequisites: None

This course provides instruction on how to equip and care for oneself on the trail. Topics include clothing, hygiene, trail ethics, and necessary equipment. Upon completion, students should be able to successfully participate in nature trail hikes. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-211 **New Games**

2

Prerequisites: None Corequisites: None

This course includes explanation, demonstration, and participation in games that provide an alternative to traditional sports. Emphasis is placed on playing for pleasure rather than for competitive purposes. Upon completion, students should be able to participate and lead others in participating in noncompetitive games. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-217 Pilates I

2 1

Prerequisites: None Corequisites: None

This course provides an introduction to the Pilates method of body conditioning exercise. Topics include instruction in beginning and intermediate Pilates exercises using a mat or equipment, history of the Pilates method, and relevant anatomy and physiology. Upon completion, students should be able to perform beginning and intermediate exercises, and possess an understanding of the benefits of conditioning the body's core muscles. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-218 Pilates II

2 1

Prerequisites: C or better in PED 217

Corequisites: None

This course provides continued instruction to the Pilates method of body conditioning exercise. Topics include instruction in intermediate and advanced Pilates exercises using a mat or equipment, relevant anatomy and physiology, and further discussion of related concepts. Upon completion, students should be able to perform intermediate and advanced exercises, and possess the autonomy to maintain their own personal Pilates practice. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

PED-235 Tai Chi

3 1

Prerequisites: None Corequisites: None

This course introduces martial arts using the Tai Chi form. Topics include proper conditioning exercises, proper terminology, historical foundations, etiquette, and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts. This course has been approved for the transfer under the CAA as a premajor and/or elective course requirement.

Philosophy

PHI-215 **Philosophical Issues**

Prerequisites: C or better in ENG-111

Corequisites: None

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critically evaluate the philosophical components of an issue. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

PHI-240 Introduction to Ethics

Prerequisites: C or better in ENG-111

Corequisites: None

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, virtue ethics etc. Upon completion, students should be able to apply various ethical theories to moral issues such as, abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies. This is a Universal General Education Transfer Component (UGETC) course that satisfies Humanities/Fine Arts.

Pharmacy

PHM-110 Introduction to Pharmacy

3 0 3

0

Prerequisites: None Corequisites: None

This course introduces pharmacy practice and the technician's role in a variety of pharmacy settings. Topics include medical terminology and abbreviations, drug delivery systems, law and ethics, prescription and medication orders, and the health care system. Upon completion, students should be able to explain the role of pharmacy technicians, read and interpret drug orders, describe quality assurance, and utilize pharmacy references.

PHM-111 Pharmacy Practice I

3 3 4

Prerequisites: None

Corequisites: PHM-110, PHM-115

This course provides instruction in the technical procedures for preparing and dispensing drugs in the hospital and retail settings under supervision of a registered pharmacist. Topics include drug packaging and labeling, out-patient dispensing, hospital dispensing procedures, controlled substance procedures, inventory control, and non-sterile compounding. Upon completion, students should be able to perform basic supervised dispensing techniques in a variety of pharmacy settings.

PHM-115 Pharmacy Calculations

3 0

Prerequisites: None Corequisites: None

This course provides an introduction to the metric, avoirdupois, and apothecary systems of measurement and the calculations used in pharmacy practice. Topics include ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas, dilution and concentration, aliquots, specific gravity and density, and flow rates. Upon completion, students should be able to correctly perform calculations required to properly prepare a medication order.

PHM-118 Sterile Products

3 3 4

Prerequisites: PHM-110, PHM-111

Corequisites:

This course provides an introduction to intravenous admixture preparation and other sterile products, including total parenteral nutrition and chemotherapy. Topics include aseptic techniques; facilities, equipment, and supplies utilized in admixture preparation; incompatibility and stability; laminar flow hoods; immunizations and irrigation solutions; and quality assurance. Upon completion, students should be able to describe and demonstrate the steps involved in preparation of intermittent and continuous infusions, total parenteral nutrition, and chemotherapy.

PHM-120 Pharmacology I

Prerequisites: None Corequisites: None

This course introduces the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include nutritional products, blood modifiers, hormones, diuretics, cardiovascular agents, respiratory drugs, and gastrointestinal agents. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

PHM-125 Pharmacology II

3 0 3

Prerequisites: PHM-120 Corequisites: None

This course provides a continuation of the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include autonomic and central nervous system agents, anti-inflammatory agents, and anti-infective drugs. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names.

PHM-132 Pharmacy Clinical

0 6 2

Prerequisites: None Corequisites: None

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

PHM-134 Pharmacy Clinical

0 12 4

Prerequisites: None Corequisites: None

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

PHM-138 Pharmacy Clinical

0 24 8

Prerequisites: None Corequisites: None

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers.

PHM-140 Trends in Pharmacy

2 0 2

Prerequisites: None Corequisites: None

This course covers the major issues, trends, and concepts in contemporary pharmacy practice. Topics include professional ethics, continuing education, job placement, and the latest developments in pharmacy technician practice. Upon completion, students should be able to demonstrate a basic knowledge of the topics discussed.

ourse Descriptions

PHM-150 Hospital Pharmacy

Prerequisites: None Corequisites: None

This course provides an in-depth study of hospital pharmacy practice. Topics include hospital organizational structure, committee functions, utilization of reference works, purchasing and inventory control, drug delivery systems, and intravenous admixture preparation. Upon completion, students should be able to explain hospital organization/committee functions, interpret and enter patient orders, fill unit-dose cassettes, and prepare intravenous admixtures.

PHM-155 Community Pharmacy

2 2 3

3 3

Prerequisites: None Corequisites: None

This course covers the operational procedures relating to retail pharmacy. Emphasis is placed on a general knowledge of over-the-counter products, prescription processing, business/inventory management, and specialty patient services. Upon completion, students should be able to provide technical assistance and support to the retail pharmacist.

PHM-160 Pharm Dosage Forms

3 0

Prerequisites: None Corequisites: None

This course is a study of pharmaceutical dosage forms and considerations in their manufacture. Topics include bioavailability, routes of administration, tablets, capsules, solutions, syrups, suspensions, elixirs, aerosols, transdermals, topicals, ophthalmics, otics, and other dosage forms. Upon completion, students should be able to describe the characteristics of the major dosage forms and explain how these characteristics affect the action of the drug.

PHM-165 Pharmacy Prof Practice

2 0 2

Prerequisites: None Corequisites: None

This course provides a general overview of all aspects of pharmacy technician practice. Emphasis is placed on pharmacy law, calculations, compounding, pharmacology, and pharmacy operations. Upon completion, students should be able to demonstrate competence in the areas required for the Pharmacy Technician Certification Examination.

Physics

PHY-110 Conceptual Physics

3 0 3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: PHY-110A

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. Nonmathematical discussions of concepts and practical applications will be stressed. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences.

PHY-110A Conceptual Physics Lab

Prerequisites: None Corequisites: PHY-110

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences.

PHY-121 Applied Physics I

3 2 4

2 1

Prerequisites: None Corequisites: None

This algebra-based course introduces fundamental physical concepts as applied to industrial and service technology fields. Topics include systems of units, problem-solving methods, graphical analyses, vectors, motion, forces, Newton's laws of motion, work, energy, power, momentum, and properties of matter. Upon completion, students should be able to demonstrate an understanding of the principles studied as applied in industrial and service fields.

PHY-125 Health Sciences Physics

3 2

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course introduces fundamental physical principles as they apply to health technologies. Topics include motion, force, work, power, simple machines, and other topics as required by the student's area of study. Upon completion, students should be able to demonstrate an understanding of the fundamental principles covered as they relate to practical applications in the health sciences.

PHY-151 College Physics I

2 4

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111; MAT-171 or MAT-271

Corequisites: None

This course uses algebra/trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associates in Science Degree.

PHY-152 College Physics II

324

Prerequisites: C or better in PHY-151

Corequisites: None

This course uses algebra/trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associates in Science Degree.

Course Descriptions

*PHY-251 General Physics I

3 3 4

Prerequisites: DRE-098, ENG-002 Tier 2, or C or better in ENG-110 or

ENG-111; MAT-271 Corequisites: MAT-272

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associates in Science Degree.

*PHY-252 General Physics II

3 3 4

Prerequisites: C or better in MAT-272 and PHY-251

Corequisites: None

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. This is a Universal General Education Transfer Component (UGETC) course that satisfies Natural Sciences for the Associates in Science Degree.

Plastics

*PLA-120 Injection Molding

2 3

Prerequisites: None Corequisites: None

This course provides theory and processing experience with the injection molding process. Topics include machine type, molds, controls, machine-polymer part relationship, molding factors, troubleshooting, and molding problems/solutions. Upon completion, students should be able to demonstrate an understanding of machine setup and operation and be able to optimize common injection molding machines.

Political Science

POL-120 American Government

3 0

3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111

Corequisites: None

This course is a study of the origins, development, structure, and functions of American government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

Psychology

PSY-150 General Psychology

3 0 3

Prerequisites: None Corequisites: None

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

PSY-237 Social Psychology

3 0 3

Prerequisites: C or better in PSY-150 or SOC-210

Corequisites: None

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

PSY-241 Developmental Psychology

0 3

Prerequisites: C or better in PSY-150

Corequisites: None

This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

PSY-281 Abnormal Psychology

3 0 3

Prerequisites: C or better in PSY-150

Corequisites: None

This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

Public Administration

PAD-151 Intro to Public Admin

the lives of people composing that society.

3 0 3

Prerequisites: None Corequisites: None

This course includes an overview of the role of the public administrator in government and an examination of the development and implementation of public policy. Topics include public personnel administration and management, decision making, public affairs, ethics, organizational theories, budgetary functions within governmental agencies, and other governmental issues. Upon completion, students should be able to explain the functions of government in society and in

PAD-252 Public Policy Analysis

Prerequisites: None Corequisites: None

This course is a study of methods and techniques used to determine the effectiveness of public programs. Emphasis is placed on the concept of ecology and environmental impact, informal groups and information networks, and the relationship between public and private sectors. Upon completion, students should be able to analyze case studies with the use of political analysis techniques.

PAD-254 Grant Writing

Prerequisites: None Corequisites: None

This course covers the basic techniques of successful grant writing. Topics include concept development, funding sources research, and writing skills relevant to the grants process. Upon completion, students should be able to demonstrate a basic understanding of the grants process.

Radiography

*RAD-110 Rad Intro & Patient Care

2 3 0 3

3 0

Prerequisites: BIO-163, Enrollment in Radiography program

Coreguisites: RAD-111 and RAD-151

This course provides an overview of the radiography profession and student responsibilities. Emphasis is placed on basic principles of patient care, radiation protection, technical factors, and medical terminology. Upon completion, students should be able to demonstrate basic skills in these areas.

*RAD-111 RAD Procedures I

3 3 0 4

Prerequisites: BIO-163, Enrollment in the Radiography program

Corequisites: None

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, spine, and pelvis. Upon completion, students should be able to demonstrate competence in these areas.

*RAD-112 RAD Procedures II

3 3 0 4

Prerequisites: RAD-110, RAD-111, RAD-151, and BIO requirement

Corequisites: None

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, spine, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas.

*RAD-113 RAD Elective Lab

0 3 0 1

Prerequisites: None Corequisites: None

This course provides additional laboratory opportunities in radiologic technology. Emphasis is placed on radiographic procedures and manipulation of equipment. Upon completion, students should be able to demonstrate competence in radiographic procedures through laboratory evaluations.

*RAD-121 Image Production I

2 3 0 3

Prerequisites: RAD 110, RAD 111, and RAD 151

Corequisites: None

This course provides the basic principles of radiographic image production. Emphasis is placed on image production, x-ray equipment, receptor exposure, and basic imaging quality factors. Upon completion, students should be able to demonstrate an understanding of basic principles of radiographic image production.

*RAD-122 Image Production II

1 3 0 2

Prerequisites: RAD-112, RAD-121, and RAD-161

Corequisites: None

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on advanced digital principles and production. Upon completion, students should be able to demonstrate an understanding of advanced principles of digital imaging production.

*RAD-141 Radiation Safety

2 0 0 2

Prerequisites: RAD-112, RAD-121, and RAD-161

Corequisites: None

This course covers the principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices. Upon completion, students should be able to demonstrate an understanding of the effects and uses of radiation in diagnostic radiology.

*RAD-151 RAD Clinical Ed I

0 0 6 2

Prerequisites: Enrollment in the Radiography program

Corequisites: RAD-110 and RAD-111

This course introduces patient management and basic radiographic procedures in the clinical setting. Emphasis is placed on mastering positioning of the chest and extremities, manipulating equipment and applying principles of ALARA. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*RAD-161 RAD Clinical Ed II

0 0 15 5

Prerequisites: RAD-110, RAD-111, and RAD-151

Corequisites: RAD-112 and RAD-121

This course provides additional experience in patient management and in more complex radiographic procedures. Emphasis is placed on mastering positioning of the spine, pelvis, head and neck, and thorax, and adapting procedures to meet patient variations. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*RAD-171 RAD Clinical Ed III

0 0 9 3

Prerequisites: RAD-112, RAD-121, and RAD-161

Corequisites: None

This course provides experience in patient management specific to advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and transitioning to mastering positioning of advanced studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*RAD-211 RAD Procedures III

2 3 0 3

Prerequisites: RAD-122, RAD-141, and RAD-171

Corequisites: None

This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, advanced imaging, radiographic pathology and image analysis. Upon completion, students should be able to demonstrate an understanding of these areas.

*RAD-231 Image Production III

Prerequisites: RAD-122, RAD-141, and RAD-171

Corequisites: None

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on complex imaging production and principles, quality control and quality assurance in the imaging sciences. Upon completion, students should be able to demonstrate an understanding of advanced radiographic equipment and quality control programs.

*RAD-251 RAD Clinical Ed IV

0 0 21 7

1 3 0 2

Prerequisites: RAD-122 and RAD-171 Corequisites: RAD-211 and RAD-231

This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and a further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*RAD-261 RAD Clinical Ed V

0 0 21 7

Prerequisites: RAD-251 Corequisites: RAD-271

This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives.

*RAD-271 Radiography Capstone

2 3 0 3

Prerequisites: RAD-211, RAD-231, RAD-251

Corequisites: None

This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of an entry-level radiographer.

*RAD-281 RAD Clinical Elective

0 0 3 1

Prerequisites: None Corequisites: None

This course provides advanced knowledge of clinical applications. Emphasis is placed on enhancing clinical skills. Upon completion, students should be able to successfully complete the clinical course objectives.

Substance Abuse

*SAB-135 Addictive Process

3 0 0 3

Prerequisites: None Corequisites: None

This course explores the physical, emotional, psychological, and cultural aspects of the addictive process. Emphasis is placed on addictions to food, sex, alcohol, drugs, work, gambling, and relationships. Upon completion, students should be able to identify the effects, prevention strategies, and treatment methods associated with addictive disorders. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*SAB-140 Pharmacology

Prerequisites: None Corequisites: None

This course covers the pharmacology of psychoactive drugs and abused chemicals and treatment options. Emphasis is placed on the use of psychoactive drugs and related psychological and social complexities, including models for prevention and treatment. Upon completion, students should be able to understand and identify theories of addiction, major classes of drugs, treatment alternatives, and social repercussions. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification.

*SAB-210 Sub Abuse Counseling

2 2 0 3

Prerequisites: None Corequisites: None

This course provides theory and skills acquisition by utilizing intervention strategies designed to obtain therapeutic information, support recovery, and prevent relapse. Topics include counseling individuals and dysfunctional families, screening instruments, counseling techniques and approaches, recovery and relapse, and special populations. Upon completion, students should be able to discuss issues critical to recovery, identify intervention models, and initiate a procedure culminating in cognitive/behavioral change. Check with the North Carolina Substance Abuse Professional Practice Board (NCSAPPB) to verify if this course has been approved for training/education credit for substance abuse certification/recertification

Information Systems Security

SEC-110 Security Concepts

2 2 3

Prerequisites: C or better in CTI-120

Corequisites: None

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy. This course has been certified by the National Security Agency, National Information Assurance Education and Training Program as meeting NSTISSI No. 4011, National Training Standard for Information Systems Security (INFOSEC) Professionals and CNSSI No. 4013 Entry Level System Administrators (SA).

SEC-160 Security Administration I

2 2 3

Prerequisites: C or better in SEC-110

Corequisites: None

This course provides an overview of security administration and fundamentals of designing security architectures. Topics include networking technologies, TCP/IP concepts, protocols, network traffic analysis, monitoring, and security best practices. Upon completion, students should be able to identify normal network traffic using network analysis tools and design basic security defenses. This course has been certified by the National Security Agency, National Information Assurance Education and Training Program as meeting NSTISSI No. 4011, National Training Standard for Information Systems Security (INFOSEC) Professionals and CNSSI No. 4013 Entry Level System Administrators (SA).

SEC-210 Intrusion Detection

Prerequisites: C or better in SEC-160

Corequisites: None

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host based systems.

SEC-260 Security Admin II

2 2 3

2 2 3

Prerequisites: C or better in SEC-160

Corequisites: None

This course provides the skills necessary to design and implement information security controls. Topics include advanced networking and TCP/IP concepts, network vulnerability analysis, and monitoring. Upon completion, students should be able to distinguish between normal and anomalous network traffic, identify common network attack patterns, and implement security solutions.

*SEC-285 **Systems Security Project**

1 4 3

Prerequisites: C or better in CTI-110, CTI-120, and CTS-115

Corequisites: None

This course provides the student the opportunity to apply the skills and competencies acquired in the program that focus on systems security. Emphasis is placed on security policy, process planning, procedure definition, business continuity, compliance, auditing, testing procedures and systems security architecture. Upon completion, students should be able to design and implement comprehensive information security architecture from the planning and design phase through implementation.

Sociology

Introduction to Sociology

3 0

Prerequisites: None Corequisites: None

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. This is a Universal General Education Transfer Component (UGETC) course that satisfies Social/Behavioral Sciences.

SOC-213 Sociology of the Family

0 3 3

Prerequisites: None Corequisites: None

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse life-styles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

The numbers following course titles indicate class, lab, clinic/co-op/ shop, and credit hours, respectively.

SOC-220 **Social Problems**

Prerequisites: None Corequisites: None

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

SOC-225 **Social Diversity**

0 3

Prerequisites: None Corequisites: None

This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

SOC-240 **Social Psychology**

Prerequisites: None Corequisites: None

This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society. This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences.

Medical Sonography

*SON-110 Intro to Sonography

1 3 3 3

Prerequisites: Enrollment in Sonography Program

Corequisites: SON 130

This course provides an introduction to medical sonography. Topics include applications, sonographic terminology, history, patient care, ethics, and basic skills. Upon completion, students should be able to define professionalism and sonographic applications and perform basic patient care skills and preliminary scanning techniques.

*SON-111 Sonographic Physics

3 3 0 4

Prerequisites: None Corequisites: None

This course introduces ultrasound physical principles, bioeffects, and sonographic instrumentation. Topics include sound wave mechanics, transducers, sonographic equipment, Doppler physics, bioeffects, and safety. Upon completion, students should be able to demonstrate knowledge of sound wave mechanics, transducers, sonography equipment, the Doppler effect, bioeffects, and safety.

*SON-120 SON Clinical Ed I

0 0 15 5

Prerequisites: SON-110 Corequisites: None

This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

*SON-121 SON Clinical Ed II

Prerequisites: SON-120 Corequisites: None

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

*SON-130 Abdominal Sonography I

2 3 0 3

0 0 15 5

Prerequisites: Enrollment in Sonography Program

Corequisites: SON-110

This course introduces abdominal and small parts sonography. Emphasis is placed on the sonographic anatomy of the abdomen and small parts with correlated laboratory exercises. Upon completion, students should be able to recognize and acquire basic abdominal and small parts images.

*SON-131 Abdominal Sonography II

1 3 0 2

Prerequisites: SON-130 Corequisites: None

This course covers abdominal and small parts pathology recognizable on sonograms. Emphasis is placed on abnormal sonograms of the abdomen and small parts with correlated sonographic cases. Upon completion, students should be able to recognize abnormal pathological processes in the abdomen and on small parts sonographic examinations.

*SON-140 Gynecological Sonography

2 0 0 2

Prerequisites: SON-110 Corequisites: None

This course is designed to relate gynecological anatomy and pathology to sonography. Emphasis is placed on gynecological relational anatomy, endovaginal anatomy, and gynecological pathology. Upon completion, students should be able to recognize normal and abnormal gynecological sonograms.

*SON-220 SON Clinical Ed III

0 0 24 8

Prerequisites: SON-121 Corequisites: None

This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

*SON-221 SON Clinical Ed IV

0 0 24 8

Prerequisites: SON-220 Corequisites: None

This course provides continued active participation off campus in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.

*SON-222 Selected SON Clinical Ed

0 0 6 2

Prerequisites: SON-110 Corequisites: None

This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating selected sonographic examinations. Upon completion, students should be able to image, process, and evaluate selected sonographic examinations.

*SON-225 Case Studies

0 3 0 1

Prerequisites: SON-110 Corequisites: None

This course offers the opportunity to present interesting cases found during clinical education. Emphasis is placed on presentation methods which integrate patient history, laboratory results, and sonographic findings with reference to current literature. Upon completion, students should be able to correlate information necessary for complete presentation of case studies.

*SON-241 Obstetrical Sonography I

2 0 0 2

Prerequisites: SON-110 Corequisites: None

This course covers normal obstetrical sonography techniques, the normal fetal environment, and abnormal first trimester pregnancy states. Topics include gestational dating, fetal anatomy, uterine environment, and first trimester complications. Upon completion, students should be able to produce gestational sonograms which document age, evaluate the uterine environment, and recognize first trimester complications.

*SON-242 Obstetrical Sonography II

2 0 0 2

Prerequisites: SON-241 Corequisites: None

This course covers second and third trimester obstetrical complications and fetal anomalies. Topics include abnormal fetal anatomy and physiology and complications in the uterine environment. Upon completion, students should be able to identify fetal anomalies, fetal distress states, and uterine pathologies.

*SON-250 Vascular Sonography

1 3 0 2

Prerequisites: None Corequisites: None

This course provides an in-depth study of the anatomy and pathology of the vascular system. Topics include peripheral arterial, peripheral venous, and cerebrovascular disease testing. Upon completion, students should be able to identify normal vascular anatomy and recognize pathology of the vascular system.

*SON-289 Sonographic Topics

2 0 0 2

Prerequisites: SON-110 Corequisites: None

This course provides an overview of sonographic topics in preparation for certification examinations. Emphasis is placed on registry preparation. Upon completion, students should be able to demonstrate a comprehensive knowledge of sonography and be prepared for the registry examinations.

Spanish

SPA-111 Elementary Spanish I

3 0 3

Prerequisites: DRE-097, DRE-098, ENG-002 Tier 1, or C or better in ENG-110 or ENG-111 $\,$

Corequisites: None

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. Lab practice is expected of students. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

SPA-112 Elementary Spanish II

3 0 3

Prerequisites: C or better in SPA-111

Corequisites: None

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

SPA-120 Spanish for the Workplace

Prerequisites: None Corequisites: None

This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is placed on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion, students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity.

SPA-211 Intermediate Spanish I

Prerequisites: C or better in SPA-112

Corequisites: None

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

SPA-212 Intermediate Spanish II

Prerequisites: C or better in SPA-211

Corequisites: None

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts.

Surveying

SRV-110 Surveying I

Prerequisites: Take One Set

Set 1: MAT-121 Set 2: MAT-171

Set 3: DMA-060, DMA-070, and DMA-080

Set 4: DMA-065 Set 5: MAT-003 Tier 2 Corequisites: None

This course introduces the theory and practice of plane surveying. Topics include the precise measurement of distances, angles, and elevations; bearing, azimuth and traverse computations; topography and mapping. Upon completion, students should be able to use/care for surveying equipment, collect field survey data, perform traverse computations and create a contour map.

SRV-111 Surveying II

Prerequisites: SRV-110 Corequisites: None

This course introduces route surveying and roadway planning and layout. Topics include simple, compound, reverse, spiral, and vertical curves; geometric design and layout; planning of cross-section and grade line; drainage; earthwork calculations; and mass diagrams. Upon completion, students should be able to calculate and lay out highway curves; prepare roadway plans, profiles, and sections; and perform slope staking.

SRV-210 Surveying III

Prerequisites: SRV-110 Corequisites: None

0 3

2 6

This course introduces boundary surveying, land partitioning, and calculations of areas. Topics include advanced traverses and adjustments, preparation of survey documents, and other related topics. Upon completion, students should be able to research, survey, and map a boundary.

SRV-220 Surveying Law

2 2 3

Prerequisites: SRV-110 Corequisites: None

This course introduces the law as related to the practice of surveying. Topics include surveyors' responsibilities, deed descriptions, title searches, eminent domain, easements, weight of evidence, riparian rights, and other related topics. Upon completion, students should be able to identify and apply the basic legal aspects associated with the practice of land surveying.

SRV-240 Topo/Site Surveying

2 6 4

Prerequisites: SRV-110 Corequisites: SRV-210

This course covers topographic, site, and construction surveying. Topics include topographic mapping, earthwork, site planning, construction staking, and other related topics. Upon completion, students should be able to prepare topographic maps and site plans and locate and stake out construction projects.

SRV-250 Advanced Surveying

2 6 4

Prerequisites: SRV-111 Corequisites: None

This course covers advanced topics in surveying. Topics include photogrammetry, astronomical observations, coordinate systems, error theory, GPS, GIS, Public Land System, and other related topics. Upon completion, students should be able to apply advanced techniques to the solution of complex surveying problems.

Sustainability Technologies

SST-110 Intro to Sustainability

0 3

Prerequisites: None Corequisites: None

This course introduces sustainability issues and individual contributions toward environmental sustainability. Topics include management processes needed to maximize renewable/non-renewable energy resources, economics of sustainability, and reduction of environmental impacts. Upon completion, students should be able to discuss sustainability practices and demonstrate an understanding of their effectiveness and impacts.

SST-120 Energy Use Analysis

2 2 3

Prerequisites: DMA 050 or placement

Corequisites: None

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2 6

This course introduces the principles of analyzing energy use, energy auditing tools and techniques, conservation techniques, and calculating energy savings. Topics include building system control theory, calibrating digital controls, energy loss calculations, and applicable conservation techniques. Upon completion, students should be able to demonstrate an understanding of energy use, audits, and controls in the analysis of energy consumption.

0 0 21 7

SST-140 Green Bldg & Design Concepts

Prerequisites: None Corequisites: None

This course is designed to introduce the student to sustainable building design and construction principles and practices. Topics include sustainable building rating systems and certifications, energy efficiency, indoor environmental quality, sustainable building materials and water use. Upon completion, students should be able to identify the principles and practices of sustainable building design and construction.

*SST-210 Issues in Sustainability

Prerequisites: SST 110 Corequisites: None

This course introduces the long-term impacts and difficulties of applying sustainability concepts in an organization, business, or society. Topics include the application of sustainable technologies and the analysis of affordability, efficiencies, recycling, and small and large-scale design. Upon completion, students should be able to recognize the possible limitations of sustainable technologies and be prepared to reconcile such conflicts

Surgery

*SUR-110 Intro to Surg Technology

3 0 0 3

5 6 0 7

5 3 0 6

3

Prerequisites: Enrollment in the Surgical Technology program Corequisites: BIO-169, SUR-111

This course provides a comprehensive study of peri-operative care, patient care concepts, and professional practice concepts within the profession of surgical technology. Topics include: introductory concepts, organizational structure and relationships, legal, ethical and moral issues, medical terminology, pharmacology, anesthesia, wound healing management concepts, and technological sciences. Upon

completion, students should be able to apply theoretical

knowledge of the course topics to the practice of surgical technology.

*SUR-111 Periop Patient Care

Prerequisites: Enrollment in the Surgical Technology program

Coreguisites: BIO-169 and SUR-110

This course provides the surgical technology student the theoretical knowledge required to function in the pre-operative, intra-operative, and post-operative role. Topics include asepsis, disinfection and sterilization, physical environment, instrumentation, equipment, peri-operative patient care, and peri-operative case management. Upon completion, students should be able to apply the principles and practice of the per-operative team member to the operative environment.

*SUR-122 Surgical Procedures I

Prerequisites: BIO-169, SUR-110 and SUR-111

Corequisites: SUR-123

This course provides an introduction to selected basic and intermediate surgical specialties that students are exposed to the first clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment.

*SUR-123 Sur Clinical Practice I

Prerequisites: SUR-110 and SUR-111

Corequisites: SUR-122

This course provides clinical experience with a variety of perioperative assignments to build upon skills learned in SUR-111. Emphasis is placed on the scrub and circulating roles of the surgical technologist including aseptic technique and basic case preparation for selected surgical procedures. Upon completion, students should be able to prepare, assist with, and dismantle basic surgical cases in both the scrub and circulating roles.

*SUR-134 Surgical Procedures II

5 0 0 5

Prerequisites: SUR-123 Corequisites: SUR-135

This course provides a comprehensive study of intermediate and advanced surgical specialties that students are exposed to in the second clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment.

*SUR-135 SUR Clinical Practice II

0 0 12 4

Prerequisites: SUR-122 and SUR-123

Corequisites: SUR-134

This course provides clinical experience with a variety of perioperative assignments to build skills required for complex perioperative patient care. Emphasis is placed on greater technical skills, critical thinking, speed, efficiency, and autonomy in the operative setting. Upon completion, students should be able to function in the role of an entry-level surgical technologist.

*SUR-137 Prof Success Prep

1 0 0 1

Prerequisites: SUR-123

Corequisites: SUR-134 and SUR-135

This course provides employability skills and an overview of theoretical knowledge in preparation for certification. Topics include test-taking strategies, resume preparation, interviewing strategies, communication skills, and teamwork concepts. Upon completion, students should be able to prepare a resume, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification.

*SUR-210 Adv SUR Clinical Practice

0 0 6 2

Prerequisites: None Corequisites: None

This course is designed to provide individualized experience in advanced practice, education, circulating, and managerial skills. Emphasis is placed on developing and demonstrating proficiency in skills necessary for advanced practice. Upon completion, students should be able to assume leadership roles in a chosen specialty area.

*SUR-211 Adv Theoretical Concepts

2 0 0 2

Prerequisites: None Corequisites: None

This course covers theoretical knowledge required for extension of the surgical technologist role. Emphasis is placed on advanced practice in complex surgical specialties, educational methodologies, and managerial skills. Upon completion, students should be able to assume leadership roles in a chosen specialty area.

*SUR-212 SUR Clinical Supplement

Prerequisites: SUR-135 Corequisites: None

This course provides the opportunity to continue mastering the continuity of care in the peri-operative assignment. Emphasis is placed on maintaining and enhancing acquired clinical skills in the peri-operative setting. Upon completion, students should be able to demonstrate mastery of surgical techniques in the role of the entry level surgical technologist.

Transportation Technology

*TRN-110 Intro to Transport Tech

Prerequisites: None Corequisites: None

This course covers workplace safety, hazardous materials, environmental regulations, hand tools, service information, basic concepts, vehicle systems, and common transportation industry terminology. Topics include familiarization with major vehicle systems, proper use of various hand and power tools, material safety data sheets, and personal protective equipment. Upon completion, students should be able to demonstrate appropriate safety procedures, identify and use basic shop tools, and describe government regulations regarding transportation repair facilities.

*TRN-120 Basic Transp Electricity

Prerequisites: None Corequisites: None

This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns.

*TRN-120A Basic Transp Electrical Lab

Prerequisites: None Corequisites: TRN 120

This course provides a lab that allows students to enhance their understanding of electrical components and circuits used in the transportation industry. Topics include inspection, diagnosis, and repair of electrical components and circuits using appropriate service information for specific transportation systems. Upon completion, students should be able to diagnose and service electrical components and circuits used in transportation systems.

*TRN-130 Intro to Sustainable Transp 2 2 3

Prerequisites: None Corequisites: None

This course provides an overview of alternative fuels and alternative fuel vehicles. Topics include composition and use of alternative fuels including compressed natural gas, biodiesel, ethanol, hydrogen, and synthetic fuels, hybrid/electric, and vehicles using alternative fuels. Upon completion, students should be able to identify alternative fuel vehicles, explain how each alternative fuel delivery system operates, and perform minor repairs.

*TRN-140 Transp Climate Control

Prerequisites: None Corequisites: None

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This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis and repair of climate control systems. Topics include diagnosis and repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to diagnose and repair vehicle climate control systems.

*TRN-140A Transp Climate Cont Lab

1 2 2

2 2

Prerequisites: None Corequisites: TRN-140

This course provides experiences for enhancing student skills in the diagnosis and repair of transportation climate control systems. Emphasis is placed on reclaiming, recovery, recharging, leak detection, climate control components, diagnosis, air conditioning equipment, tools and safety. Upon completion, students should be able to describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information.

*TRN-145 Adv Transp Electronics

2 3 3

Prerequisites: TRN-120 Corequisites: None

This course covers advanced transportation electronic systems including programmable logic controllers, on-board data networks, telematics, high voltage systems, navigation, collision avoidance systems and electronic accessories. Topics include interpretation of wiring schematics, reprogramming PLC's, diagnosing and testing data networks and other electronic concerns. Upon completion, students should be able to reprogram PLC's, diagnose and test data networks and other electronic concerns, and work safely with high voltage systems.

Veterinary Medicine

VET-110 Animal Breeds and Husbandry

2203

Prerequisites: Enrollment in the VMT program, VET-120, VET-121 and VET-137

Corequisites: None

This course provides a study of the individual breed characteristics and management techniques of the canine, feline, equine, bovine, porcine, ovine, caprine, and laboratory animals. Topics include physiological data, animal health management, and basic care and handling of animals. Upon completion, students should be able to identify breeds of domestic and laboratory animals, list physiological data, and outline basic care, handling, and management techniques.

VET-120 Vet Anatomy and Physiology

3 3 0 4

Prerequisites: Enrollment in the VMT program

Coreguisites: VET-121 and VET-137

This course covers the structure and function of the animal body with emphasis on the similarities and differences among domestic animals. Emphasis is placed on the structure and function of the major physiological systems of domestic, laboratory, and zoo animals. Upon completion, students should be able to identify relevant anatomical structure and describe basic physiological processes for the major body systems.

1 2 0 2

VET-121 **Veterinary Medical Terminology**

Prerequisites: Enrollment in the VMT program

Corequisites: VET-120, and VET-137

This course covers the basic medical terminology required for veterinary technicians. Topics include the pronunciation, spelling and definition of word parts and vocabulary terms unique to the anatomy, clinical pathology, and treatment of animals. Upon completion, students should be able to demonstrate knowledge and understanding of basic medical terms as they relate to veterinary medicine. It is highly recommended that this course be taken in the first semester of the Veterinary Technology program.

VET-123 Veterinary Parasitology

Prerequisites: VET-120 and VET-121

Corequisites: VET-110

This course covers the common internal and external parasites of companion animals, livestock, selected zoo animals, and wild animals. Emphasis is placed on laboratory diagnosis of the most common forms of the parasite through fecal, urine, skin and blood exams. Upon completion, students should be able to identify common parasites and discuss life-cycles, treatment and prevention strategies, and public health aspects of veterinary parasitology.

VET-125 **Veterinary Diseases I**

2 0 0 2 Prerequisites: VET-120 and VET-121

Corequisites: VET-110

This course introduces basic immunology, fundamentals of disease processes including inflammation, and common infectious diseases of animals and their prevention through immunization. Topics include fundamental disease processes, principles of medical therapy, immunologic processes, infections and zoonotic diseases of domestic animals, and prevention of disease. Upon completion, students should be able to describe basic disease and immunological processes, recognize infections and zoonotic diseases, and discuss prevention strategies.

VET-126 Veterinary Diseases II

1 3 0 2

3 0 0 3

2 3 0 3

Prerequisites: VET-125

Coreguisites: VET-211, VET-213, and VET-215

This course includes the study of basic disease processes, fundamentals of pathology and other selected topics of veterinary medicine. Topics include histopathology, pathologic changes associated with common diseases of animals, necropsy procedures, specimen handling, and other selected material. Upon completion, students should be able to describe basic pathological changes associated with disease, recognize histopathologic changes, and properly perform collection and submission of necropsy specimens.

VET-131 Vet Lab Techniques I

2 3 0 3 Prerequisites: VET-123 and VET-125

Corequisites: VET-133

This course includes the fundamental study of hematology, hemostasis, and urinalysis. Emphasis is placed on basic hematology and urinalysis techniques, manual skill development, instrumentation, and quality control. applications to veterinary science. Upon completion, students should be able to perform manual and automated CBCs, hemostatic assays, and complete urinalyses and maintain laboratory equipment and quality control.

VET-133 Vet Clinical Practices I 2 3 0 3

Prerequisites: VET-123 and VET-125 Corequisites: VET-120 and VET-131

This course introduces basic practices and techniques of the veterinary clinic and biomedical research fields for dogs, cats, and laboratory animals. Topics include physical exam, husbandry, housing, sanitation, restraint and handling, administration of medications, anesthesia and euthanasia techniques, grooming and dentistry. Upon completion, students should be able to properly restrain, medicate, examine, groom, and maintain each of the species studied.

VET-137 Vet Office Practices

Prerequisites: Enrollment in the VMT program Corequisites: VET-110, VET-120, and VET-121

This course is designed to teach basic administrative techniques, client communication skills, and regulations pertaining to veterinary medicine. Topics include record keeping, telephone techniques, professional liability, office procedures, state and national regulatory laws, human relations, and animal welfare. Upon completion, students should be able to demonstrate effective communication techniques, office procedures, and knowledge of regulatory laws and issues relating to animal welfare.

VET-211 Vet Lab Techniques II

2 3 0 3

Prerequisites: VET-131, VET-133

Corequisites: VET-213, VET-215, and VET-126

This course covers advanced hematology, serology, immunology, and clinical chemistry. Topics include advanced hematologic, serologic, and immunologic test procedures, manual and automated clinical chemistry procedures, laboratory safety, and quality control. Upon completion, students should be able to collect, prepare, and analyze serum and plasma samples and outline quality control and safety procedures.

VET-212 Vet Lab Techniques III

2 3 0 3

Prerequisites: VET-211, VET-213, and VET-126 Corequisites: VET-214, VET-215, and VET-217

This course introduces the basic principles of microbiology, histology and cytology. Emphasis is placed on collection of microbiological samples for culture and sensitivity and collection and preparation of samples for histological and cytological examination. Upon completion, students should be able to perform microbiological culture and sensitivity and evaluate cytology and histology specimens.

VET-213 Vet Clinical Practice II

Prerequisites: VET-133, VET-131

Coreguisites: VET-126, VET-211, and VET-215

This course covers basic radiography, anesthesia techniques, dentistry, sample collection and handling, surgical assistance and instrumentation, sterile techniques, and patient record keeping. Topics include basic radiology, injectable and gas anesthesia, dentistry, instrument identification and care, sterile surgical technique, specimen collection and processing, and maintenance of patient records. Upon completion, students should be able to take and process radiographs, administer and monitor anesthesia, assist in surgical procedures, collect specimens, and maintain surgical records.

VET-214 **Vet Clinical Practice III**

1 9 0 4

Prerequisites: VET-211, VET-213 and VET-215

Corequisites: VET-212, VET-217

The course covers advanced anesthetic techniques, special radiographic techniques, advanced dentistry, sample collection and processing, bandaging, and emergency and critical care procedures. Topics include induction and maintenance of anesthesia, radiographic contrast studies, advanced dentistry, external coaptation, intensive care procedures, and advanced sample collection techniques. Upon completion, students should be able to demonstrate proficiency in sample collection, radiology, anesthesia, critical care and emergency procedures, and dentistry.

ourse Descriptions

VET-215 Veterinary Pharmacology

3 0 0 3

Prerequisites: CHM-130/CHM-130A or CHM-151, and MAT-110

Coreguisites: VET-213, VET-211, and VET-126

This course introduces drugs and other substances utilized in veterinary medicine. Emphasis is placed on drug classification and methods of action, administration, effects and side effects, storing and handling of drugs and dosage calculations. Upon completion, students should be able to properly calculate and administer medications, recognize adverse reactions, and maintain pharmaceutical inventory and administration records.

VET-217 Large Animal Clin Practice

2 3 0 3

Prerequisites: VET-120, and VET-125

Coreguisites: VET-212, VET-213, VET-214, and VET-215

This course covers the topics relevant to the medical and surgical techniques for the common domestic large animal species. Topics include physical exam, restraint, sample collection, bandaging, emergency treatment, surgical and obstetrical procedures and instruments, herd health, and lameness topics. Upon completion, students should be able to safely perform restraint, examination, and sample collection; assist surgical, obstetrical, and emergency procedures; and discuss herd health.

VET-237 Animal Nutrition

3 0 0 3

Prerequisites: CHM-130 and CHM-130A

Corequisites: None

This course covers the principles of nutrition and their application to feeding practices of domestic, farm, and companion animals. Topics include basic nutrients and nutritional needs of individual species, proximate analysis, interpretation of food and feed labels, types of animal foods, and ration formulation. Upon completion, students should be able to select appropriate diets for animals in various stages of health and disease, analyze nutrition labels, and identify foods.

Work-Based Learning

*WBL-110 World of Work

1 0

Prerequisite: None Corequisites: None

This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to successfully make the transition from school to work.

*WBL-111 Work-Based Learning I

0 10 1

Prerequisite: See Department Chair for prerequisites

Corequisites: None

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

*WBL-112 Work-Based Learning I

20 2

Prerequisite: See Department Chair for prerequisites

Corequisites: None

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

*WBL-122 Work-Based Learning II

0 20 2

Prerequisite: See Department Chair for prerequisites

Corequisites: None

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

*WBL-212 Work-Based Learning IV

0 20 2

Prerequisite: See Department Chair for prerequisites

Corequisites: None

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

*WBL-215 Work-Based Learning Seminar IV

0 1

Prerequisite: See Department Chair for prerequisites

Corequisites: WBL 212

The working student will discuss issues and challenges of the workplace as it relates to his/her program of study. Problems encountered in the workplace will be discussed as well as solutions.

Web Technologies

WEB-111 Intro to Web Graphics

2 2 3

Prerequisite: None Corequisites: None

This course introduces the creation of web graphics, and addressing problems peculiar to WWW display using appropriate software. Topics include web graphics file types, optimization, RGB color, web typography, elementary special effects, transparency, animation, slicing, basic photo manipulation, and other related topics. Upon completion, students should be able to create graphics, such as animated banners, buttons, backgrounds, logos, and manipulate photographic images for Web delivery. Emphasis is placed on graphic design principles and industry standard Adobe software.

WEB-115 Web Markup and Scripting

2 2 3

Prerequisite: None Corequisites: None

This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, stylesheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards. Emphasis is placed on HTML with a secondary focus on CSS.

The numbers following course titles indicate class, lab, clinic/co-op/shop, and credit hours, respectively.

WEB-125 Mobile Web Design

Prerequisites: C or better in WEB-115

Corequisites: None

This course introduces students to web design for mobile devices. Topics include planning an effective mobile Web site, industry standard Mobile Markup Language, CSS3, multimedia, m-commerce, social media, testing and publishing. Upon completion, students should be able to plan, develop, test, and publish Web content designed for mobile devices.

WEB-140 **Web Development Tools**

2 2 3

2 2 3

Prerequisites: None Corequisites: None

This course provides an introduction to web development software suites. Topics include the creation of web sites and applets using web development software. Upon completion, students should be able to create entire web sites and supporting applets.

WEB-182 PHP Programming

2 3 2

Prerequisite: C or better in CIS-115 and WEB-115

Corequisites: None

This course introduces students to the server-side, HTMLembedded scripting language PHP. Emphasis is placed on programming techniques required to create dynamic web pages using PHP scripting language features. Upon completion, students should be able to design, code, test, debug, and create a dynamic web site using the PHP scripting language.

WEB-210 Web Design

2 2 3

Prerequisite: C or better in WEB-115

Corequisites: None

This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web sites. Emphasis is placed on CSS layout techniques.

WEB-213 Internet Mkt & Analytics

2 2 3

Prerequisite: C or better in CIS-115, WEB-115, or WEB-140

Corequisites: None

This course introduces students to Search Engine Optimization (SEO), Search Engine Marketing (SEM) and web analytics. Topics include Search Engine Optimization (SEO), Pay Per Click advertising (PPC), Search Engine Marketing (SEM), web analytics, eye-tracking software and email marketing. Upon completion, students should be able to set up, monitor and maintain SEO optimized websites; and develop strategies for online marketing and advertising plans. This course provides introduction to social media marketing and programming.

WEB-215 Adv Markup and Scripting

2 2

Prerequisite: C or better in WEB-115, WEB-182 and WEB-210

Corequisites: None

This course covers advanced programming skills required to design Internet applications. Emphasis is placed on programming techniques required to support Internet applications. Upon completion, students should be able to design, code, debug, and document Internet-based programming solutions to various real-world problems using an appropriate programming language. Major emphasis is placed on JavaScript, DOM scripting, and JavaScript frameworks.

WEB-225 **Content Management Sys**

Prerequisites: C or better in WEB-182 and WEB-210

Corequisites: None

This course introduces students to Content Management Systems (CMS) designed for the publication of Web content to Web sites. Topics include individual user accounts, administration menus, RSS-feeds, customizable layout, flexible account privileges, logging, blogging systems, creating online forums, and modules. Upon completion, students should be able to register and maintain individual user accounts and create a business website and/or an interactive community website.

WEB-250 **Database Driven Websites**

2 2 3

Prerequisites: C or better in DBA-110, DBA-120, WEB-182 and WEB-210

Corequisites: None

This course introduces dynamic (database-driven) website development. Topics include the use of basic database CRUD statements (create, read, update and delete) incorporated into web applications, as well as in software architecture principles. Upon completion, students should be able to design and develop database driven web applications according to industry standards.

WEB-285 **Emerging Web Technologies**

2 2 3

Prerequisites: C or better in WEB-215

Corequisites: None

This course will explore, discuss, and research emerging technologies in the web arena. Emphasis is placed on exposure to up-and-coming technologies relating to the web, providing hands-on experience, and discussion of practical implications of these emerging fields. Upon completion, students should be able to articulate issues relating to these technologies.

*WEB-289 Internet Technologies Project

3

Prerequisites: C or better in CTI-110, CTI-120, CTS-115, and WEB-250 Corequisites: None

This course provides an opportunity to complete a significant Web technologies project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete an Internet project from the definition phase through implementation.

Welding

WLD-110 Cutting Processes

3 1

Prerequisites: Admission to Welding Program

Corequisites: None

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve, and bevel cutting. Upon completion, students should be able to oxy-fuel and plasmaarc cut metals of varying thicknesses.

WLD-112 Basic Welding Processes

3 2

Prerequisites: None

Corequisites: None

This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes.

WLD-113 Soldering and Brazing

Prerequisites: None Corequisites: None

This course covers procedures for cutting, soldering and brazing of pipe and tubing. Topics include safety, proper equipment setup, and operation of soldering and brazing equipment. Upon completion, students should be able to solder and braze pipe, tubing, and fittings in various positions.

WLD-115 SMAW (Stick) Plate

Prerequisites: None Corequisites: None

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

*WLD-116 SMAW (Stick) Plate/Pipe

Prerequisites: WLD 115 Corequisites: None

This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions.

WLD-121 GMAW (MIG) FCAW/Plate 2 6

Prerequisites: None Corequisites: None

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

*WLD-122 GMAW (MIG) Plate/Pipe

Prerequisites: WLD-121 Corequisites: None

This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.

WLD-131 GTAW (TIG) Plate

Prerequisites: None Corequisites: None

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

*WLD-132 GTAW (TIG) Plate/Pipe

Prerequisites: WLD-131 Corequisites: None

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2 2

This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.

WLD-141 Symbols & Specifications

2 2 3

Prerequisites: None Corequisites: None

This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.

*WLD-151 Fabrication I

2 6 4

Prerequisites: WLD-110, WLD-115, WLD-121 and WLD-131

Corequisites: None

This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.

WLD-212 Inert Gas Welding

1 3 2

Prerequisites: None Corequisites: None

This course introduces inert gas-shielded welding methods (MIG/TIG). Topics include correct selection of consumable and non-consumable electrodes, equipment setup, safety, and welding techniques. Upon completion, students should be able to perform inert gas welding in flat, horizontal, and overhead positions.

*WLD-215 SMAW (Stick) Pipe

1 9 4

Prerequisites: WLD-115 or WLD-116

Corequisites: WLD-251

6 3

2 6 4

This course covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform SMAW welds to applicable codes on carbon steel pipe with prescribed electrodes in various positions.

*WLD-231 GTAW (TIG) Pipe

1 6 3

Prerequisites: WLD-116, WLD-122, and WLD-132

Corequisites: None

This course covers gas tungsten arc welding on pipe. Topics include joint preparation and fit up with emphasis placed on safety, GTAW welding technique, bead application, and joint geometry. Upon completion, students should be able to perform GTAW welds to applicable codes on pipe with prescribed electrodes and filler materials in various pipe positions.

*WLD-251 Fabrication II

I 6 3

Prerequisites: WLD-116, WLD-122, WLD-132, and WLD-151

Corequisites: None

This course covers advanced fabrication skills. Topics include advanced layout and assembly methods with emphasis on the safe and correct use of fabrication tools and equipment. Upon completion, students should be able to fabricate projects from working drawings.

Course Descriptions

*WLD-261 Certification Practices

1 3 2

Prerequisites: WLD-115, WLD-121, and WLD-131

Corequisites: None

This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for pre-qualified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes.

WLD-262 Inspection & Testing

2 2 3

Prerequisites: None Corequisites: None

This course introduces destructive and nondestructive testing methods. Emphasis is placed on safety, types and methods of testing, and the use of testing equipment and materials. Upon completion, students should be able to understand and/or perform a variety of destructive and nondestructive testing processes.

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| Judi Lewis | Boards of Education |
| | Retired Educator |

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| Roger Metcalf | Boards of Education |
| | Retired Educator |

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| Vacant | Board of Education |
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| | Buncombe County Community Engagement Team |
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| | Asheville City Councilman |

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| Office of the President and Secretary to the Board of Trustees |
| B.S., James Madison University |

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| | .Executive Director, Human Resources & |
| | Organizational Development |
| M.S. | L., Wake Forest University School of Law; |
| | B.S., Western Carolina University |
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| Yana Babak Technici | an, Human Resources Data Management |
| A.F.A., Asheville- | Buncombe Technical Community College |
| Lemona Banks | Specialist, Benefits |
| A.A.S. (two degrees), A | sheville-Buncombe Technical Community |
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| orystar bavell | A.A., Gulf Coast State College |
| Michael Tiller | Assistant, Human Resources |
| ואווטוומטו ווווטו | A.S., Southwest Florida College |
| Flizaheth Watkin | |
| Enzapour vvalviii | Developer |

Suzanne Wilkie.....

B.A., University of Wales

A.A.S. (two degrees), Asheville-Buncombe Technical

B.A., University of North Carolina Asheville

Accountant I, Payroll

Community College;

INSTRUCTIONAL SERVICES Dr. Beth Stewart Vice President, Instructional Services B.A., Henderson State University; M.A., Stephen F. Austin State University; Ed.D., Vanderbilt University Dr. Gene Loflin Associate Vice President, Instructional Services B.A., Mars Hill College; M.A., Appalachian State University; Ph.D., Florida State University Kim Allen....Academic Advisor, University Transfer Advising Center B.S., M.S., Indiana University Lani Anderson Coordinator, Test Administration A.A.S., Florida Junior College; B.A., University of North Carolina Asheville Tamala Barnett Executive Assistant, Instructional Services A.A.S., Asheville-Buncombe Technical Community College Lindsey Carpenter. . Academic Advisor, University Transfer Advising Center B.A., University of North Carolina at Chapel Hill; M.A., North Carolina State University Dr. Fiona Chrystall . . . Director, Curriculum Assurance & Assessment B.S., Ph.D., University of Stirling Debra Cromwell......Coordinator, Workplace Learning A.A., Brevard College; B.S., Florida State University Sharon Cupstid Assistant Director, Madison B.S. Mars Hill College Sherri Davis Director, Madison County Programs & Services A.A.S., Asheville-Buncombe Technical Community College; B.S., Franklin University Dr. Jason Fair Director, A-B Tech South B.S., Western Carolina University; M.A. Ed., Western Carolina University; Ph.D., Clemson University Regina Haas..... Administrative Assistant, Transitional Studies A.A. (two degrees), Asheville-Buncombe Technical Community College Paige Harris Specialist, Reporting & Compliance B.A., Rhode Island College; M.A., University of Connecticut Dr. Steven Heulett...... Coordinator, University Transfer Advising B.S., Stetson University; M.S., Duke University; Ed.D., Western Carolina University Kathy Hipps Administrative Assistant, Adult Basic Education B.S., Western Carolina University Janice Johnston Specialist, Adult Basic Education Foundations B.S., M.A., University of Florida Rebecca Loli...... Director, Transitional Studies A.A., Blue Ridge Community College; B.A., Montreat College; M.A., Western Carolina University Page McCorkle Coordinator, Transition Pathways & Adult Basic Education

A.B.J., M.Ed., University of Georgia Athens

| Cynthia Conboy Advisor & Instructor, Job Club B.S., Barry University | Dana Moore |
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| Wanda CovertSpecialist, Data Management | English Language Acquisition |
| B.A., Columbia College | B.A., Earlham College; |
| Fabiola Cunningham | M.Ed., Lesley University Vacant |
| A.A.,Central Piedmont Community College | Vacant |
| Marie Eller Coordinator, Human Resources Development | vacant |
| A.A., Asheville-Buncombe Technical Community College; | ECONOMIC & WORKFORCE DEVELOPMENT/ |
| B.A., University of North Carolina Asheville | CONTINUING EDUCATION |
| Jessica EnevoldLead Technician, Laboratory | Deborah WrightVice President, Economic & Workforce |
| A.A.S., Forsyth Technical Community College | Development and Continuing Education |
| Carol Faust Coordinator, Occupational & Skilled Trades | B.F.A., California Institute of the Arts; |
| A.A., Warren County Community College; | M.B.A., University of Phoenix |
| B.A., University of North Carolina at Pembroke | Michelle Acheson-MacLeod Industry Trainer, Food, Beverage & |
| Emma Harper | Natural Products |
| Diploma, Blanton's Business College; | B.A., University of Florida; |
| A.A.S., Asheville -Buncombe Technical Community College | B.S., Appalachian State University |
| Shaneka Haynes Coordinator, Community Engagement & | Duane Adams Associate Director, Small Business Center |
| Supportive Services | A.A.S., Asheville-Buncombe Technical Community College; |
| A.A.S., Asheville-Buncombe Technical | B.B.A., M.B.A., Montreat College |
| Community College; | Amber BakerCoordinator, Industry Training |
| B.S., University of Phoenix; | Administration Program |
| M.S., Walden University | A.S., Nash Community College; |
| Deborah HendersonAssistant, Continuing Education | B.S., East Carolina University; M.A., Liberty University |
| B.A., Salem College | Cathy Banks |
| Liz Jones Coordinator, Customized Training | Instructor, Health Occupations |
| A.A., Asheville-Buncombe Technical Community College; | L.P.N., Mayland Community College; |
| B.S.B.A., East Carolina University | A.D.N., Southwestern Community College; |
| Samantha Justice | B.S.N., M.S.N., Western Governors University |
| A.A.S., Asheville- | Leigh BennettSpecialist, Economic & Workforce Development |
| Buncombe Technical Community College | B.A., Southern New Hampshire University |
| Jay Kaufmann Coordinator & Lead Instructor, Barbering | Brinda Caldwell-Ramsey Director, Community Services Programs |
| B.A., University of North Carolina | A.A.S., Asheville-Buncombe Technical Community College Irene Canivet |
| Kevin Kimrey Director, Economic & Workforce Development | Case Manager, WIOA |
| B.A., M.Ed., North Carolina State University | Diploma, Fleming College; |
| Marie Knight | B.A., University of Guelph; |
| B.A., Wesleyan University | M.A., Central Michigan University |
| Sherry Lunsford | Elizabeth CarrCoordinator, Advanced Manufacturing Center |
| A.A.S., Asheville-Buncombe Technical Community College | B.A., University of North Carolina Wilmington |
| Janet McDonald | Daphne Carson |
| A.A.S., Wake Technical Community College | A.A., Haywood Community College |
| Andy McNeal Coordinator & Lead Instructor, Aerospace | ,, |

Air Force Airframe Technical School; NCO Leadership School; NCO Academy

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| Devon McNealInstructor, Facility Maintenar | се |
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| B.S., University of California Rivers | de |
| Teresa Nix Administrative Assistant, Health Occupation | ns |
| A.A.S., Asheville-Buncombe Technical Community Colle | ge |
| Kelley RayInstructor, Advanced Manufacturing Progra | ms |
| B.P.D., North Carolina State Univers | ity |
| Chris Reedy Director, Industry Training for Food, Beverages Natural Produ | |
| B.A., University of Kentuc | ky; |
| M.B.A., Xavier Univers | ity |
| Anita Rhodarmer Specialist, Community Services Progra | ms |
| A.A.S. (2 degrees), Asheville-Buncombe Technical Commur Colle | • |
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| A.D.N., Mayland Community Colle | ge |
| B.S.N., Lees-McRae Colle | ge |
| M.S.N., University of Phoe | nix |
| Anna Sauls Industry Trainer, Food, Beverage & Natural Produ | cts |
| B.S.(2 degrees), North Carolina State Univers | |
| Christine Schmidt Executive Assistant, Economic & Workford Developm | |
| A.S., Montgomery County Community Colle | ge |
| B.S., Gwynedd-Mercy Univers | ity |
| M.A., University of Delaw | are |
| Maria Spadaro Director, Workforce Continuing Educat | or |
| B.S., Penn State Univers | • |
| M.B.A., Virginia Te | cŀ |
| Jill Sparks Executive Director, Small Business Cen | |
| B.S.B.A., B.A., M.B.A., Appalachian State Univers | |
| Jennifer Wallner Administrative Assista Workforce Continuing Educat | |
| B.A., State University of New York at Bingham | ٠nr |

BUSINESS AND FINANCE

| BUSINESS AND FINANCE |
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| Dr. Dirk Wilmoth Vice President, Business & Finance and CFO |
| A.B., M.P.A., University of North Carolina at Chapel Hill; |
| M.S., Ph.D., University of Rochester |
| Brian Baines Associate Director, Plant Operations |
| Diploma, Certificate (2), Asheville-Buncombe Technical Community |
| College |
| Matthew Bentley |
| , , , |
| Lori Brown |
| Brandon ByrdGroundskeeper |
| Mark Carson Accounting Technician, Student Accounts |
| |
| B.S., University of North Carolina at Asheville |
| David CarterLead Technician, HVAC |
| Kristabell Certain |
| A.A.S. (2 degrees), Mayland Community College; |
| B.A.Sc., Gardner-Webb University |
| Mercedes Chavez |
| Law Enforcement Certification, |
| Asheville-Buncombe Technical Community College; |
| B.S., Florida International University |
| Stephen Childers |
| Law Enforcement Certification, A.A.S., Haywood Community College |
| Courtney Clark Associate, Bookstore Sales |
| A.A., Asheville-Buncombe Technical Community College |
| Robert Clark Assistant, Maintenance & Grounds 2nd Shift |
| Kevin CromptonLead Groundskeeper |
| Tracy Crompton |
| Scott Early Deputy Chief, Police |
| Law Enforcement Certification |
| Asheville-Buncombe Technical Community College; |
| B.S., Western Carolina University |
| Jody Edgerton Electrician |
| Joshua Edwards |
| Law Enforcement Certification, A.A.S., A.A., |
| Asheville-Buncombe Technical Community College |
| Melissa Edwards |
| Steven Fendel Painter |
| Benjamin Fortune Police Officer |
| Law Enforcement Certification. |
| A.A., A.A.S., Asheville-Buncombe Technical Community College |
| , - |
| Elizabeth Gentry |
| B.S., Montreat College; |
| M.Acc., Gardener-Webb University |
| Jamil Hawes Police Officer |
| Law Enforcement Certification, |
| Asheville-Buncombe Technical Community College |
| Scott Henry |
| Dispatch & Communications, Campus Police |
| Logan Hickey Coordinator, Procurement & Fixed Asset |
| A.A., Harper College; |

B.S., Elmhurst College

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| George HunterLicensed Technician I, HVAC |
| Diploma, Asheville-Buncombe Technical Community College |
| Ivory Hunter Coordinator, Maintenance 2nd Shift |
| Trenton JungingerAttendant, Event Facilities |
| Igor Kirilin Paintei |
| Petr Kolodich |
| Ivan KukharetsGroundskeepe |
| Steve Lewis Police Officer |
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| A.A., A.A.S., Asheville-Buncombe Technical Community College |
| B.S., Western Carolina University |
| Jack Meadows Police Officer |
| Advanced Law Enforcement Certification |
| B.A., University of North Carolina Asheville |
| Dennis Messer Maintenance Mechanic & General Maintenance |
| and Safety Tech |
| Diploma, Haywood Community College |
| Kevin Mills Associate Director, Events & Facilities Support |
| B.A., University of Alabama |
| Tonya Mintz Coordinator, Purchasing Card & Compliance |
| A.A., Haywood Community College |
| B.S., Southern New Hampshire University |
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| Taylor Norris Manager, Bookstore |
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| Diploma, Asheville-Buncombe Technical Community College |
| Diploma, Haywood Community College |
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| Asheville-Buncombe Technical Community College |
| Randy Ratcliff |
| Law Enforcement Certification |
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| A.A., Cecil's Junior College |
| Jason Robinson |
| Diploma, Certificate (2) |
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| Nikolay Romanenko |
| Matthew Rose |
| B.S., University of North Carolina Asheville |
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| Randy Rose Director, Safety & Facilities Special Projects |
| Technical Diploma, Asheville-Buncombe Technical Community College |
| N.C. Licensed Heating and Air Conditioning, Refrigeration |
| N.C. Licensed Heating and Air Conditioning, Kerngeration Will RuckerTechnician, Moves & Set Ups |
| viiii naakai iediiiilali, ivioves & Set Ops |
| |

| Peter Smith | Accounting Technician, Cashier |
|------------------------------|--|
| | B.A., University of Texas at Austin; |
| | M.A., Western Carolina University |
| Sandy Smith | Groundskeeper |
| A | .S., Isothermal Community College |
| Aaron Surrett | $\dots {\hbox{\bf Coordinator, Facilities Support}}$ |
| Certificate, Asheville-Bunco | mbe Technical Community College |
| Gary Tackett | Groundskeeper |
| | Wendell Tuten |
| | Technician, General Maintenance |
| Vacant | $. \ . Administrator, Facilities \ Support$ |
| Vacant | |
| Melissa Valko Exe | cutive Director, Business Services |
| B.S. | ., California State University Chico; |
| | Acc., Western Carolina University |
| Kara Walker | Chief, Police |
| | Law Enforcement Certification, |
| A.A.S., Asheville-Bunco | mbe Technical Community College |
| Tammy Ward | \dots Coordinator, Moves & Set Ups |
| A.A.S., Asheville-Bunco | mbe Technical Community College |
| Billy Warren | Coordinator, General Maintenance |
| Becky Watkins | Purchasing Agent |
| | mbe Technical Community College |
| Erin Marie Wheeler | Accountant, Institutional |
| | B.BA., Radford University; |
| M. | .Acc., Western Carolina University |
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INFORMATION SYSTEMS TECHNOLOGY

| Brian Willia Vian Brasidant Information & Tanhanagu and CIO |
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| Brian Willis Vice President, Information & Technology and CIO |
| B.S., Appalachian State University; |
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| Systems Support |
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| B.S., Appalachian State University |
| John BradleyAdministrator, Information Security |
| B.S., M.S., Mississippi State University |
| Becca Chambers Analyst, Business Process |
| B.A., Flagler College; |
| M.L.A., UNC Asheville |
| Erin Dalton Instructional Designer |
| B.A., Manhattan College; |
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| M.A., Clemson University |
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| B.A., University of Tennessee; M.S., M.B.A., Colorado State |
| University |

| Elizabeth Williams Analyst III, Technology Suppor A.A.S. (2 degrees), Asheville-Buncombe | ette Evans Administrator, Learning Management System & Instructional Technologies |
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| Commun | B.S., University of North Carolina Greensboro; |
| Allison Yelton | M.A.E., East Carolina University; |
| A.A.S. (2 degrees), Asheville-Buncombe Technical (| M.I.D.T., Georgia State University |
| D.D.A. Commis Chate | ony FairTechnician, Colleague Support |
| B.B.A., Georgia State | A.A.S., Asheville-Buncombe Technical Community College |
| | Folks |
| | A.A.S., Asheville-Buncombe Technical Community College |
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| | Gudites Developer & Administrator, SharePoint and |
| STUDENT SERVICES | Systems Administrator III |
| Dr. Terry BrasierVice President, Studer | B.S., Hodges University |
| B.S., North Carolina State | Harshman Executive Director, Information Technology & Technology Services |
| M.S., North Carolina A & T State | B.A., Elon University; |
| Ed.D., North Carolina State | J.D., Temple University School of Law |
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| B.A., Vanderbilt | |
| M.Ed., Western Carolina | B.A., Pennsylvania State University; M.F.A., Emerson College |
| Cynthia Anderson Director, Fir | Herbert Specialist II, Technology Support (On-Site) |
| B.A., Chapman | B.A., Monmouth University |
| Thomas AnspachSpecialist, Records C | nas Hilbert |
| A.A.S., U.S. Air Force Communi | (Labs & Software) |
| B.S., Southern Illinois | B.A., James Madison University |
| M.A., M.B.A., Webster | ng LawrenceSpecialist II, Technology Support |
| LaBrea Baird Specialist, A | (Instructional) |
| A.A., Asheville-Buncombe Technical Communi | A.A.S., Asheville-Buncombe Technical Community College; |
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| Catherine BallSpecialist, Test | Lawson Analyst II, Technology Support (Desktop) |
| A.A.S., Asheville-Buncombe Technical Commun | B.S., Southern Vermont College |
| Sherron Bristol. | e Manley Director, Administrative Applications |
| B.S.W., Mars H | A.A.S., Asheville-Buncombe Technical Community College; |
| M.S.W., East Tennessee State | B.M., Mars Hill University; graduate study: Rice University |
| Linda Burke Specialist, A | McCallCoordinator, Desktop & Instructional Technologies |
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| Lisa Bush Director, Enrollmer | A.A.S. (two degrees), Southwestern Community College; |
| B.A., Stetson | B.S., Western Carolina University |
| M.S., Rensselaer Polytechn | on Metcalf Analyst III, Infrastructure Systems |
| Benjamin Colburn Assistant, Fir | A.A.S., Asheville-Buncombe Technical Community College |
| B.A., B.S., University of North Carolina | Certification: CompTIA A+ |
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| B.A., Valdosta State | A.A.S., Asheville-Buncombe Technical Community College |
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| B.A., Florida State | Information Systems |
| M.S., Western Carolina | A.A.S. (2 degrees), Asheville-Buncombe Technical Community |
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| B.S., Appalachian State | don Priester Specialist, Video-conference & |
| Kimberly England Executive Assistant, Studer | Distance Learning Support |
| A.A.S., Asheville-Buncombe Technical Commun | A.A.S., A.A., Asheville-Buncombe Technical Community College; |
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| High School | n Roberts Analyst I, Technology Support (Helpdesk) |
| B.A., University of North Carolina at | A.A.S., Ivy Tech Community College |
| MADA III | |

M.P.A., University of North Carolina at Wilmington

| Lee Fisher Recruiter | M.S.W., East Tennessee State University |
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| B.A., Western Carolina University | Justin Reed Specialist, Records & Registration |
| Rebecca Garland Recruiter & College Liaison, | Certificate, Asheville- |
| High School Programs | Buncombe Technical Community College; |
| A.A.S., Mayland Community College; | B.A., University of Pittsburgh |
| B.A., University of North Carolina Asheville | Alikhan Salehi Lead Advisor |
| Elisabeth Green GeyerCoordinator, Information Center | B.A., University of North Carolina Asheville |
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| B.S.S., Ohio University; | B.S., University of North Carolina at Greensboro |
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| Michele HathcockDirector, Title IX Compliance & | B.A., Coastal Carolina University; |
| Student Life Development | M.A., Troy University |
| B.S., Western Carolina University; | Vicki Thompson Advisor, College Entry & Recruiter, CCP |
| M.A., Lenoir-Rhyne University | B.A., M.S., University of Tennessee |
| Jason HechtAssociate Registrar | Megan Triplett |
| B.A., St. Joseph's College | Assistant, Financial Aid |
| Alyson LaudenslayerCoordinator, Admissions | B.A., University of North Carolina at Asheville |
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| Joseph Loughmiller Coordinator, Verification & FWS Program | A.A.S., Asheville-Buncombe Technical Community College |
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| M.A., Appalachian State University | |
| Pamela North | |
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| Laura Parkerson Advisor, GOT & Pre-Allied Health | |
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| M.A.Ed., Spalding College | |
| Dr. Fairley Pollock Director, Educational Partnerships | |
| B.A., Meredith College; | |
| M.A.Ed., Ed.D., Western Carolina University | |
| Marshay Proctor-Bates Academic Advisor & Success Coach | |
| | |
| Certificate, A.A., Asheville-Buncombe Technical Community College; | |

Administration, Faculty, and Staff

Divisions

| ACADEMIC SUCCESS & PUBLIC SERVICE |
|--|
| Ronald Layne Dean, Academic Success & Public Service |
| A.S., Asheville-Buncombe Technical Community College; |
| B.A., University of North Carolina Asheville; |
| M.A., Western Carolina University |
| Dr. Bo Bennett |
| B.S., South University; |
| M.A., University of the Rockies; |
| Ph.D., Walden University |
| Shelly BlackburnChair, Academic Related Instruction |
| B.S., Appalachian State University; |
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| Phyllis M. Boone Administrative Assistant, Academic Success & Public Service |
| A.A.S., A.A., Asheville-Buncombe Technical Community College |
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| B.S., University of North Carolina Greensboro; |
| M.A.T., Western Carolina University |
| Angela CalhounLibrary Assistant, Public Service & Systems Support |
| A.A.S., Asheville-Buncombe Technical Community College; |
| B.S., University of Phoenix |
| Rhonda Davidson Chair, Health & Physical Education |
| B.S., M.A., Gardner-Webb University |
| Susan Donato Library Assistant, Acquisitions & Interlibrary Loan |
| B.S., Kent State University |
| Claire GolcherLibrary Assistant, Public Service & Cataloging |
| Support |
| A.A.S., Fashion Institute of Technology |
| Erica HennigLibrarian, Cataloging & Technical Services |
| B.A., Sweet Briar College; |
| M.A., M.L.I.S., University of South Carolina |
| Peggy HigginsLibrarian, Systems & Access Services |
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| M.L.I.S., University of NC at Greensboro; |
| M.A. Winthrop University |
| Tamara ReynoldsInstructor, Education |
| B.A., University of North Carolina at Chapel Hill; |
| M.Ed., Union Institute and University |
| Laura Shears Instructor, ACA |
| B.A., Hope College; |
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| Ed.S., Appalachian State University |
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| B.A., University of North Carolina at Chapel Hill; |
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| Anna SzymanskiInstructor, Health & Physical Education |
| B.S., Central Michigan University; |
| M.S., Oakland University |

| Russell TaylorDirector, Library Services |
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| B.A., Warren Wilson College; |
| M.L.I.S., University of North Carolina Greensboro |
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| ALLIED HEALTH |
| Dr. Jon R. Wiener Dean, Allied Health |
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| Christy Andrews, R.N |
| B.S.N., Western Carolina University; |
| M.S.N., University of North Carolina Charlotte |
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| Abra Brooks, R.D.H Instructor, Dental Hygiene |
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| College; |
| B.S., East Tennessee State University |
| Rene Brooks, R.T. (R)(ARRT) |
| A.A.S., Asheville-Buncombe Technical Community College; |
| B.S., Regis University |
| Marilee Bush, R.D.H. Instructor, Dental Hygiene |
| A.A., Cerritos Community College; |
| B.S.D.H., University of Southern California |
| Chastity Case, R.T.(R), R.D.M.S., R.V.T |
| A.A.S., Asheville-Buncombe Technical Community College; Certificate, School of Diagnostic Medical Sonography, |
| Grady Memorial Hospital, Atlanta, GA; |
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| Kedren Cooper, R.D.M.S., R.V.TInstructor, Medical Sonography |
| A.A.S., Asheville-Buncombe Technical Community College; |
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| Meghann Cooper, R.N. |
| Instructor, Nursing |
| A.D.N., Asheville-Buncombe Technical Community College; |
| B.S.N., M.S.N., Western Carolina University |
| Paula Covert, C.D.A., R.D.H Instructor, Dental Assisting |
| C.D.A., Ontario Business College; |
| A.A.S., Lake Superior College; |
| B.S.D.H., M.S.D.H., University of Missouri-Kansas City |
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| Lindsay Edwards, R.V.T \dots Instructor, Veterinary Medical Technology |
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| Susan Fender, M.T. (ASCP) Instructor, Medical Laboratory Technology | Christine Lomax, B.F.A., COTA/L Fieldwork Coordinator, Occupational Therapy Assistant |
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| Diploma, A.A.S., Asheville-Buncombe Technical Community College; | A.A.H.S., Pennsylvania College of Technology; |
| B.S., Western Carolina University | B.F.A., Kutztown University |
| Brenda Fisher, R.D.H Program Director, Dental Hygiene | Jeniffer Nicholson, R.D.HInstructor, Dental Hygiene |
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| M.A., Lenior-Rhyne University | B.S., Mars Hill University |
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| B.S., Mars Hill College; | B.A., Berea College |
| M.A., East Carolina University | Kara Reuther, R.N |
| Pamela Griffin, R.N | B.S.N., East Carolina University; |
| A.S.N., Asheville-Buncombe Technical Community College; | M.S.N., Grand Canyon University |
| B.S.N., Winston Salem State University; | Eileen Shupe, R.N |
| M.S.N., Lenoir-Rhyne University | B.S.N., Kent State University; |
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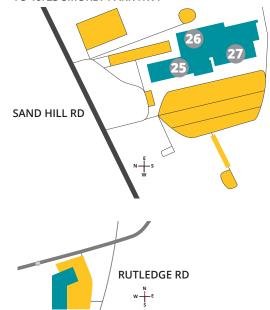
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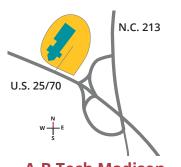
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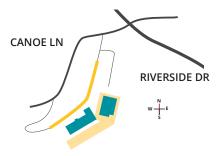
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