



Catalog and Student Handbook 2023-2024

McDowell Technical Community College

54 College Drive
Marion, NC 28752
(828) 652-6021
Fax (828) 652-1014
www.mcdowelltech.edu

NC Works Career Center at The Ford Miller Employment and Training Center

Mailing: 54 College Drive
Located at 316 Baldwin Avenue
Marion, NC 28752
(828) 659-6001
Fax (828) 659-8733

MTCC Small Business Center

Mailing: 634 College Drive
Marion, NC 28752
(828) 652-0633
Fax (828) 659-8038

Universal Advanced Manufacturing Center

Mailing: 54 College Drive
Located at 634 College Drive
Marion, NC 28752
(828) 652-0619

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This catalog should not be considered a contract between McDowell Technical Community College and the student. Curriculum offerings may be altered to meet the needs of individuals and a minimum enrollment is required for offering or continuing a class. Tuition and fees are subject to change.

Questions not answered in this publication may be directed to the Student Services Office.

McDowell Technical Community College is an equal opportunity/affirmative action institution. McDowell Technical Community College does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services.

Academic Areas

911 Communications and Operations *	80
Accounting and Finance: Accounting	81
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* (pending SACSCOC Approval)

MTCC Board Of Trustees

Gary Stroud, Chairman

Appointees of the Governor's Office

Expiration of Term

Robert Ayers
Ray McKesson
Gary Stroud, Chair
Susan English

June 30, 2023
June 30, 2024
June 30, 2025
June 30, 2026

Appointees of the McDowell County Board of Education

Donald Ramsey
Gwen Conley
Kay P. Medford
Nancy Hunter (Vice-Chair)

June 30, 2023
June 30, 2024
June 30, 2025
June 30, 2026

Appointees of the McDowell County Commissioners

Bill Bach
Chad Marsh
William Kehler
Brenda Vaughn

June 30, 2023
June 30, 2024
June 30, 2025
June 30, 2026

The President of the Student Government Association serves as an Ex-Officio, Non-Voting Member of the Board of Trustees.

Administration

President
Vice-President for Finance and Administration
Associate Vice-President of Workforce Development
Dean of Curriculum Programs and Chief Academic Officer
Interim Dean of Students
Associate Dean of Business, Arts and Sciences
Associate Dean of Career and Technical Education

Dr. Brian S. Merritt
Ryan Garrison
Stacy Buff
Valerie Dobson
Chuck Bowling
Dr. Bo Bennett
Brandon Hensley

MTCC Foundation

In 1977, the McDowell Technical Community College Foundation, Inc. was created to enrich resource development and enhance the quality of college life by procurement of gifts from the private sector. The Foundation operates under the auspices of a Board of Directors who plan and conduct fundraising projects, pledge campaigns and related programs. Individuals or organizations wishing to assist the College may do so by making tax deductible donations of equipment, cash, bonds, stocks, real estate, trusts, life insurance, or bequests. For additional information, contact Dr. Brian S. Merritt, MTCC President, at 828-652-0630 or Madalyn Gaito, Director of Development and MTCC Board Liaison, at 828-652-0630.

Members of the Foundation are:

Paula Avery (West Marion Community Forum)
Walt Bagwell (Kincaid Insurance), Chair
Marion Baker (Retired)
Bob Boyette (City of Marion)
Marsh Dark (Morrow Insurance)
Johnnie Davis (Crane Resistoflex)
Jan Goodson (Retired)
William Hollifield (CPA)
Nancy Hunter (Retired)
Steve Jones (Joanne Howle Realty)
Ray McKesson (Retired-MTCC)
Steve McMahan (Rock Tenn)
Sharon Parker (Attorney)
Wes Shelley (Attorney), Vice-Chair
Sarah Washburn (Wells Fargo)

Student Government Representative
Board of Trustee Representative: Nancy Hunter
Board of Trustee Representative: Ray McKesson

MTCC Staff

Dr. Brian S. Merritt (President), Secretary
Ryan Garrison (Vice President for Finance & Administration), Treasurer
Stacy Buff (Associate Vice President of Workforce Development)
Valerie Dobson (Dean of Curriculum Programs and Chief Academic Officer)
Madalyn Gaito (Director of Development and MTCC Board Liaison)
Amanda Buchanan (Financial Aid Director)

About This Catalog

This catalog was prepared by Michael Lavender, Director of External Relations, using Adobe InDesign CC software.

2023 Important Telephone Numbers									
Dr. Brian S. Merritt, President	652-0635	Ryan Garrison, VP Finance & Administration	652-0627	Chuck Bowling, Interim Dean of Students	659-0459	Valerie Dobson, Dean of Curriculum Programs	652-0699		
Stacy Buff, Associate VP of Workforce Development, & Continuing Education	652-0663	Dr. Bo Bennett, Associate Dean of Business, Arts & Sciences	659-0488	Brandon Hensley, Associate Dean of Career & Technical	652-0641				
Abernathy, Eric	652-0679	FAX Bldg. 17	659-0437	Madden, Blake	652-0682	Teale, William	652-0643		
Adcock, Tab	659-0492	FAX Bldg. 18	659-9710	Manning, Jamie	659-0455	Tipton, Donnie	659-0407		
ARC Lab, Bldg. 11	659-0408	FAX Business Office	659-0401	Martin del Campo Vargas, Silvia	659-0496	Tinetti, Lorrie	652-0623		
Arrowood, Chelsie	652-0637	FAX ConEd	652-8008	McCraw, Donnie	652-0671	Universal Adv. Manuf. Center	652-0619		
Arrowood, Sam	652-0686	FAX NC Works	659-8733	McCraw, Sandi	659-0414	UAMC Adjunct Office	659-0436		
Auto Mechanics	652-0671	FAX Student Service	659-0430	McFarland, Kelly Giles	652-0667	Valentino, Jorge	659-0404		
Bailey, Aprille	652-0629	Forshey, Pam	652-0604	McPeters, Barry	652-7920	Valentino, Teresa	652-0634		
Bartlett, Lora Dr.	652-0605	Forshey, Tony	659-0494	Mechatronics	659-0490	Wacaster, Penny #137	659-6001		
Berthelson, Hamah	652-0602	Foster, Belinda	652-0611	Mills, Raven	659-0408	Wakefield, Diana	652-0644		
Boardroom Bldg. 17	652-0601	Gatto, Madalyn	652-0630	Monosso, Deb	652-0646	Walden, Christina	659-0446		
Bolick, Kendall	652-0612	GED Testing Room	652-0683	Moore, Alan	652-0677	Ward, Claudia	652-0664		
Book Store	652-0613	Getty, Richard	652-0694	Moore, Tori	659-0445	Warpoole, Lydia	659-0489		
Book Store Office	652-0678	Gilliland, Beth	652-0649	Morgan, Lori	659-0453	Watson, Debbie	659-0423		
Bowling, Chuck	659-0459	Goble, Talley, Anna	652-0639	Morgan, Andy	652-0655	Waycaster, Brooke	659-0499		
Brooks, Dalton	652-0622	Gouge, Jane	659-0421	Morgan, Lisa	652-0636	Weather, (Students)	659-0419		
Brown, Madison	652-0612	Grage, Kristyn	652-0612	Morgan, Myra	659-0467	Webb, Jessica	652-0625		
Buchanan, Amanda	652-0624	Grindstaff, Susan	652-0675	Morgan, Ronald	652-0674	Weiler, Joan	652-0651		
Buchanan, Darian	652-0688	Hall, Joy	652-0604	Nail Tech Adjunct Office	659-0452	Welding	652-0689		
Bufi, Tabitha	652-0685	Harmont, Ladelie (Bo)	652-0626	NC Works	659-6001	Whisnant, Allison	659-0452		
Burnette, Bridget	659-0446	Harris, Madison	652-0633	Nur Assl Info Line (CNA)	652-0639	Wilson, Breanna	652-0618		
Business Office	652-0696	Health Sciences	659-0434	Pearson, Rachel	652-0658	Wilson, Dakota	652-0638		
Butler, Rachael	652-0600	Hensley, Jill	659-0416	Pell Grant Info Line	659-0450	Wimsatt, Sherry	652-0653		
Butner, Rudy	652-0620	Hensley, Jimmy #140	659-6001	Perry, Jay	652-0670	Wood, Ashlee	652-0612		
Café	652-0615	Hollifield, Randy	659-0426	Price, Pam #131	659-6001	Wood, Linda	652-0604		
Calhoun, Kayne	659-0449	Howle, Jonathan Dr.	659-0608	Print Shop	652-0665	Woods, Elenor	652-0678		
Career & College Promise	652-0621	Huffman, Revonda (Jill)	659-0473	Prison	659-7810	Workman, Candice	659-0446		
Clark, Amy	652-0604	Hughes, Joni	652-0662	Ray, Rachel	652-0698	Wright, Diane	652-0660		
Classroom 14 & 15 Area	659-0471	Huskins, Jessi	659-0487	Receptionist	652-0623				
Cline, Billy Dr. (MAI Principal)	659-0448	HVAC	659-0484	Robinson, Lisa (MEC Principal)	659-0415				
Cole, Crystal	652-0616	Hyatt, Marc	659-0425	Robinson, Makenna	659-0443				
College & Career Readiness #137	659-6001	Jamison, Howard	659-0457	Rodriguez, Eric (SRO)	828-317-1840				
Cosmetology Lobby	652-0687	Johnson, E. Brooke	659-0453	Ruiz, Betsy	652-0621				
Cosmetology Office	652-0610	Johnson, Roxie	659-0499	Sain, Pamela	659-0451				
Cross, Chip	652-0672	Jones, Susanna	652-0659	Salas Bonita, Laura	659-6001				
Crowder, Emilee	659-0427	Jordan, Marilyn	652-0648	Sanchez Campanor, Areli	652-0696				
Culp, Jennifer	652-0650	Jomigan, Sarah	652-0639	Saxton, Chris	659-0456				
Curtis, Colton	652-0690	Kaylor, Wesley	652-0617	Security Cell	442-1084				
Davis, Vonda #155	659-6001	King, Edwin #160	659-6001	Security Office	652-0673				
Day Care Baby Room	652-0600	Laughridge, Tina	659-0411	Shuford, Eddie	652-0652				
Day Care Kitchen	652-0612	Lavender, Michael	652-0681	Silver, Dylan	652-0638				
Day Care Office	652-0637	Library	652-0604	Silver, Sharon	652-0609				
DeAngelus, Ramona	652-0684	Long, Susan	659-0418	SIM Lab	659-0485				
Dillard, John	652-0606	Lytle, Elizabeth	659-0455	Simmons, Tia	659-0455				
Dowdle, Clay	652-0689	Machine Shop	652-0693	Small Business Center	652-0634				
Duncan, Annie	659-0497	Macopson, Elmer	652-0603	Smith, Jamie	659-0439				
Edwards, Eugene	659-0422	MAI/MEC School Nurse	652-0649	Smith, Nicole	659-0428				
Edwards, Lisa	652-0612	MAI/MEC School Resource Officer	828-317-1840	Snyder, Angela	659-0472				
Electrical	659-0490	MAI/MEC Secretary	659-0411	Snyder, Courtney	652-0610				
Eller, Elizabeth (Liz)	659-0470	MAI Counselor (Mandie Pennel)	659-0417	Steele, Rhonda	652-0654				
Engineering	659-0490	MAI/MEC Secretary	659-0411	Stines, Wayne	652-0693				
Epley, Casey	659-0405	MAI Counselor (Mandie Pennel)	659-0417	Stockton, Katie	652-0619				
Esthetics Adjunct Office	659-0455	MEC Counselor (Asley Bartlett)	659-0413	Tate, Jonathan	659-0490				
Esthetics Lobby	652-0640	Maintenance	659-0406	Teacher Resource Area	659-0424				

Academic Calendar

Fall 2023

All FT Faculty Return	August 1
Faculty/Staff Development	August 11
Late Registration	August 9
New Student Orientation	August 10
Classes Begin	August 14
End of Drop/Add: 16 Week/1 st 8 Weeks	August 16
Tuition Refund Deadline/10%	August 23
End of Drop/Add: 14 Week	August 30
Labor Day Holiday	September 4
Last Day to received Non-Punitive Grade of "W"	September 18
Fall Break (Work/Annual Leave)	October 9-10
End of Drop/Add: 2 nd 8 Week	October 13
Spring Advising Begins	October 15
Fall Festival SGA Event	October 19
Spring Registration Begins	November 1
Work/Annual Leave	November 22
Thanksgiving Holidays	November 23-24
Last Day of Class	December 11
Grades Due	December 12
Work/Annual Leave	December 14, 15, 18, 19
Campus Closed- Holidays	December 20-22, 25, 26
Campus Closed Mandatory Annual Leave	December 27-29

Spring 2024

Faculty/Staff Development	January 2
Late Registration	January 3
New Student Orientation	January 4
Classes Begin	January 8
End of Drop/Add: 16 Week/1 st 8 Weeks	January 10
Martin Luther King Holiday	January 15
Tuition Refund Deadline/10%	January 18
End of Drop/Add: 14 Week	January 25
Last Day to received Non-Punitive Grade of "W"	February 9
End of Drop/Add: 2 nd 8 Week Curriculum	March 6
MTCC Fire Rescue College (All Classes Virtual)	March 14-17
Advising Begins	March 18
Good Friday Holiday	March 29
Spring Break	April 1-5
Summer/Fall Registration Begins	April 8
Spring Fling SGA Event	April 16
Last Day of Class	May 6
Grades Due	May 7
Graduation	May 10

Summer 2024

Late Registration	May 15
New Student Orientation	May 16
Classes Begin	May 20
End of Drop/Add	May 22
Tuition Refund Deadline/10%	May 24
Memorial Day Holiday	May 27
Last Day to received Non-Punitive Grade of "W"	June 10
Summer Break	July 1-3
Independence Day Holiday	July 4
End 8-Week Classes	July 22
End of Summer Term	August 5
Grades Due	August 6

Fall 2024

All FT Faculty Return	August 1
Faculty/Staff Development	August 6
Late Registration	August 14
New Student Orientation	August 15
Classes Begin	August 19
End of Drop/Add: 16 Week/1 st 8 Weeks	August 21
Tuition Refund Deadline/10%	August 28
Labor Day Holiday	September 2
End of Drop/Add: 14 Week	September 5
Last Day to received Non-Punitive Grade of "W"	September 20
Fall Break (Work/Annual Leave)	October 7-8
Spring Advising Begins	October 15
End of Drop/Add: 2 nd 8 Week	October 18
Fall Festival SGA Event	October 24
Spring Registration Begins	November 1
Work/Annual Leave	November 27
Thanksgiving Holidays	November 28-29
Last Day of Class	December 16
Grades Due	December 17
Work/Annual Leave	December 18-20
Campus Closed- Holidays	December 23-26
Campus Closed Mandatory Annual Leave	December 27, 30-31

MTCC History

1964

McDowell Technical Community College was established as the Marion-McDowell Industrial Education Center, located in downtown Marion, N.C. near the corner of State Street and South Garden Street. M-MIEC operated as a satellite unit of Asheville-Buncombe Technical Institute until September, 1967.

1967

M-MIEC became an independent unit of the Department of Community Colleges. The first Board of Trustees was sworn in, giving more local autonomy.

1970

The school moved to permanent facilities on a 31-acre site at the intersection of Interstate 40 and Highway 226 in Marion.

1971

The N.C. General Assembly made it possible for the school to become an independent institution. The College was officially chartered as McDowell Technical Institute.

1975

A new building expansion program was completed, adding 39,322 square feet to the existing campus. Expansion included a new Auto Mechanics shop, 500-seat Amphitheatre, Learning Resource Center, Teaching Auditorium (seating 220), permanent administrative offices, classrooms and an expanded Student Commons area.

1977

McDowell Technical Institute Foundation, Inc. was created to enrich resource development and enhance the quality of college life by procurement of gifts from the private sector.

1979

The N.C. General Assembly enacted a bill to change the school's name to McDowell Technical College.

1984

Robert M. Boggs succeeded John A. Price as President, becoming the College's second Chief Administrator. The College undertook a major bond campaign, which resulted in \$2,400,000 for the addition of new facilities.

1987

Construction was completed on the Industrial Skills Center, a 32,000 square foot class/lab facility, housing special industrial

skills training facilities and class/lab areas for technical and vocational programs.

The Day Care/Classroom building was completed, housing a day care area for children of MTCC students, Continuing Education classrooms/offices, an auditorium and faculty offices. The new facility added 11,200-square feet to existing campus facilities.

1988

McDowell Technical College changed its name to McDowell Technical Community College to more accurately reflect the comprehensive educational opportunities available to the citizens of McDowell County.

The MTCC Small Business Center was funded and established to provide educational opportunities and financial assistance to small businesses in the county.

1989

The MTCC Career Center was established, providing students with information and help in choosing careers.

The MTCC Downtown Center, located in downtown Marion at the original site of the Marion-McDowell Industrial Education Center, was established to offer Continuing Education classes.

1990

MTCC, in conjunction with Isothermal and Cleveland Community Colleges, established the Foothills Nursing Consortium to begin offering an Associate Degree Nursing Program in 1991.

1996

MTCC's North Carolina Information Highway Room was certified and became operational, offering conferences and classes via live interactive video and sound.

1997

The MTCC Downtown Center moved to its new location at 35 South Main Street in Marion, where the McDowell County Schools Accelerated Learning Center and the McDowell County JobLink Career Center were also located.

Construction was completed on a new 19,950 square foot classroom building, the Library was renovated and a new hand-capped lift was installed in the Administrative Building. 1,000 square foot was added to the college bookstore.

1999

Dr. Robert Boggs retired after 15 years of service to the College. Dr. H. Edwin Beam

became Interim President and the Board of Trustees began the search for a new President.

Today, McDowell Technical Community College offers Associate Degrees, Diplomas, and/or Certificates in more than 30 curriculum programs. The College also offers classes in many areas of Continuing Education. MTCC currently serves more than 6,800 students per year with some type of education and training.

2000

Dr. Virginia R. Mitchell became third president of the College. Instructor Jan Alms designed the first College Seal, which was incorporated into the College's Presidential Medallion, vested upon Dr. Mitchell during inaugural ceremonies in May.

2004

Dr. Bryan W. Wilson succeeded Dr. Virginia R. Mitchell as president of the College after she retired in December, 2003.

2005

Mr. Ford Miller, local businessman, made the largest private donation the college had ever received when he gave MTCC the former Marion Mills Office Building on Baldwin Avenue. Trustees named the building The Ford Miller Employment and Training Complex. Plans were begun to convert the building to a combination office and classroom building to house MTCC staff and students, the McDowell County JobLink Career Center and associated partners, and the McDowell County Employment Security Commission.

2008

The W. Harold Smith Building was completed and named for Harold Smith, a local businessman who left his estate to further educational opportunities for young adults from McDowell County. A trust established in his name has donated over \$825,000 to the college during the last decade, including well in excess of \$100,000 for this building. Scholarships from this trust have also benefitted individual students attending curriculum classes at the college.

2009

The Ford Miller Employment and Training Center was completed and began operations in late September of this year.

2010

The Academic Resource Center (ARC)

opened on the upper level of the Library adjacent to the Student Enrichment Center to offer students tutoring, computer access, instructional support, test proctoring and a variety of other academic resources. Printers and study tables are also available.

2014

Dr. Bryan W. Wilson, President, and the Board of Trustees, in conjunction with the McDowell County Board of Commissioners, dedicated the Universal Advanced Manufacturing Center (UAMC), providing new and enlarged classrooms and shop areas for Machining, Electrical/Electronics, Welding, Industry Training and related programs.

2016

Dr. John Gossett, who had been serving as the college's Vice-President for Learning and Student Services, was appointed President in May and assumed his new duties on August 1.

2017

Throughout the 2017-2018 academic year, the College celebrated the 50th Anniversary of its establishment as an independent institution of what is now known as the North Carolina Community College System. A special celebration was held in conjunction with the SGA's Fall Festival in October and included the opening of a historical photo exhibit in the main administration building.

2020

Dr. John Gossett resigned when he was named the new President of AB-Tech in Asheville, NC. Mr. Ryan Garrison, Vice-President for Finance and Administration at McDowell Tech was named MTCC's Interim President.

2021

In January, 2021, Dr. Brian S. Merritt became the sixth president of McDowell Technical Community College.

General Information

Accreditation

McDowell Technical Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Questions about the accreditation of McDowell Technical Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033.

The MTCC Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

Mission

MTCC enriches our community with access to student-centered, affordable, high-quality, lifelong learning opportunities that promote workforce development.

Graduate Competencies

McDowell Technical Community College strives to prepare graduates to:

1. Listen and communicate effectively, orally and in writing.
2. Demonstrate competence in reading.
3. Demonstrate quantitative competencies.
4. Demonstrate skills in using a personal computer.
5. Use information to analyze problems and make logical decisions.

General Responsibilities

Students are expected to acquaint themselves with and observe College regulations and policies contained in the *Catalog and Student Handbook* and all announcements made by administrative officials.

Academic Year

McDowell Technical Community College operates on the semester system (Fall, Spring and Summer). Classes are regularly scheduled Monday through Friday for the day and evening curriculum classes. Weekend curriculum classes may also be offered on an occasional basis. Holidays, days for registration, and the first and last days for classes in each semester are indicated on the academic calendar.

Hours of Operation

In general, the College will offer day and evening curriculum classes in technical, vocational, general education and college transfer programs from approximately 8:00 am to 10:30 pm Monday through Friday. Occasionally, classes will begin or end an hour earlier or later than these parameters. Weekend and summer semester classes may vary from this schedule.

The administrative offices of the College are open 8:00 am to 5:00 pm Monday through Thursday, and 8:00 am to 4:30 pm Friday.

The Academic Resource Center is open from 8:00 am to 7:00 pm Monday through Thursday and 8:00 am to 1:00 pm on Friday.

The Library is open from 8:00 am to 7:00 pm Monday through Thursday and 8:00 am to 1:00 pm on Friday.

Continuing Education classes will be offered across campus and throughout the community at varying times throughout the week. Consult the Schedule of Classes for Continuing Education class times.

Hours of operation for the annual Fire and Rescue College will be mailed to applicants several weeks prior to the event.

Inclement Weather

At times, McDowell Technical Community College curriculum and/or continuing education classes may be delayed or canceled due to inclement weather, natural disaster, or other emergency. The President is responsible for making the decision of whether to delay or cancel classes and for communicating this decision to the Director of Communications, to the news media, and to the college.

When it becomes necessary to discontinue or delay classes, an announcement will be made to local and regional radio and television stations. Morning announcements will be made about 6:15 am for day classes. All day classes will operate according to the announcement and will either be canceled for the day or begin at 10:00 am.

Should it become necessary to change from the delayed class schedule to class cancellation, the media will be notified by 8:00 am.

Announcements concerning evening classes will be made over the same media outlets during the afternoon, usually by 3:00 pm. There is no abbreviated schedule for evening classes.

Students may call the college if they cannot receive one of the radio or television stations listed. If the college is closed, students may access a recorded closing/delay message by calling the College at 659-0419. Announcements will also be listed on Facebook and at www.mcdowelltech.edu.

Students, faculty and staff may sign up for text alerts from the College to receive inclement weather announcements. Log onto the MTCC website at www.mcdowelltech.edu and visit the section labeled “McDowell Tech Text Alerts” to sign up while on campus.

During inclement weather, students and staff members may listen to these stations for news about school delays or class cancellation:

Radio	Television
WWNC (570 AM) Asheville	WLOS (Ch. 13, Asheville)
WBRM (1250 AM) Marion	WBTV (Channel 3, Charlotte)
WTOE (1470 AM) Spruce Pine	WSOC (Ch. 9, Charlotte) WYFF (Ch. 4, Greenville)
WMNC (92.1 FM) Morganton	WSPA (Ch. 7, Spartanburg)
WKSF (99.9 FM) Asheville	
WQNQ (104.3 FM), Asheville/Old Fort	

Class makeup: The college recognizes its obligation to deliver the instructional services for which students pay tuition and fees. For this reason, all missed classes should be re-scheduled or made up in a manner determined by the Chief Academic Officer. The final attendance report must document how cancelled classes were made up.

Housing

McDowell Technical Community College is a commuter institution and does not provide living accommodations for students. However, if a student desires to live in the community while attending classes, the Student Services Office will refer him/her to appropriate resources for assistance in locating suitable housing.

Campus Access Parking and Security Fee (CAPS)

Parking facilities are available for students, visitors, staff and faculty. All Curriculum students are required to pay a \$20.00 per semester CAPS fee. CAPS fee receipts are utilized for student parking, campus security costs, including but not limited to, salaries, related benefits and operating costs associated with security personnel; contracted security services; vehicles, equipment and capital improvements necessary to secure college property.

Food Services

A short order café is located in the Student Commons. The café serves lunch Monday through Thursday. The cafe may be closed when the college is holding special events in the Student Commons or when class is not in session. Snacks and soft drinks may also be purchased from vending machines in the Student Commons.

Smith Academic Resource Center

Library Services encompasses the Library and audiovisual materials and equipment. Library staff members are available to help students and faculty as well as members of the community with library needs. The MTCC library hours are posted at the library entrances. The MTCC library can be accessed through the MTCC website by clicking on the “Campus Life” tab on college website and then choosing Library from the drop-down menu.

A wide range of library resources is available to support the curriculum programs of the College. The book collection includes more than 9,000 volumes of current reference materials, college transfer, technical and vocational materials. Four periodicals are received throughout the year. Patrons are welcome to recommend materials for purchase.

Audiovisual materials are available for classroom instruction. Audiovisual equipment is available in all classrooms on campus. The online card catalog (SirsiDynix iLink) provides easy access to Library materials and makes the check-out process smooth, quick and accurate.

Additional library resources include Interlibrary Loan through online Computer Library Center (OCLC) and Community College Libraries in North Carolina (CCLINC). Online databases include NCLIVE Databases: Gale and Cinahl Plus. Computers are available for Internet research, including NC LIVE. NCLIVE's online collection includes access to 1.4

billion full-text articles, e-books, streaming videos, digitized newspapers, language learning tools and more. Remote access to the databases is available to online students through Open LMS as well as the website. Other students need a library account to get the passwords/urls for the databases. A library account is needed by all library patrons to use the computers in the library and to check out library materials.

Cell Phones and Beepers

Cellular telephones, beepers, two-way radios and similar devices may cause distraction and/or disruption of the learning environment. Students are to keep all such devices turned off during class and while in the MTCC Library. Students with extenuating circumstances must seek permission of the individual instructor or library staff member to have such devices turned on in these locations.

Technology

McDowell Technical Community College maintains multiple computer labs for instructional purposes in curriculum areas such as Accounting, Advertising & Graphic Design, Business Administration, Computer Information Technology, Health Information Technology, Nursing, Office Systems, Photography and Web Technology. The Graphic Design and Photography labs utilize Macintosh computers with associated software while other labs contain PC workstations running Microsoft Windows with associated software. An open lab is available in the Smith Academic Resource Center. Printing is available in labs for instructional purposes.

Wi-Fi is available across campus for guest use. No login is necessary, but users must read and accept the campus policy to access the internet. Violation of this policy could result in revocation of computer use privileges on campus. Please reference B.P-1.22 and CP 1.22.1 Acceptable Use of Computer Resources and Network for additional information.

Children On Campus

It is College policy that children may not accompany students to class. Children who are brought to campus for other reasons must be closely supervised by a responsible adult and may be asked to leave if they become disruptive. Children enrolled in the MTCC Child Development Center are allowed on campus when supervised by College staff.

Child Development Center

The McDowell Technical Community College Child Development Center is a 5-star center providing quality care for children 6 weeks to 5 years of age. We provide care during the day with full-time or part-time slots to students, MTCC/MEC/MAI faculty & staff and the community. The center also houses a Pre-K classroom which is led by a NC certified licensed teacher. The Pre-K classroom hours are 8:30-2:30 during the school year and is free to qualifying families. A wrap-around service (2:30-5:30) is available for children enrolled in the Pre-K classroom. The Child Development Center is open from 7:30 am to 5:30 pm Monday through Friday. Financial assistance is available to qualifying applicants. For additional information, fee schedules and application materials, please contact the MTCC Child Development Center at 828-652-0637.

Dress

Students are to exercise judgment in dressing appropriately for classes and/or laboratory work. Students in certain curriculum programs may be required to wear particular items of clothing for safety and/or designation of their course of study. Refer to the Student-Oriented Policies and Procedures section of the Catalog and to Program Handbooks for more details.

Noise

Students are to be considerate of classes which are in session. Excessive noise will not be tolerated within administrative or classroom buildings.

Tobacco Use

McDowell Technical Community College is a tobacco-free campus (including cigarettes, chewing tobacco and e-cigarettes). Smoking/tobacco use is not permitted on campus. Those who violate this policy will receive a verbal warning for the first offense. Continued violation of this policy will result in disciplinary action. If you would like assistance with smoking cessation, please contact QuitlineNC at 1-800-QUIT-NOW or 1-800-784-8669. It is a free call.

Bulletin Boards

Students may post notices on bulletin boards subject to the approval of the Student Government Advisor in the Student Enrichment Center.

Lost and Found

All lost or found items should be reported to the receptionist at the information desk in Building 11 (Cedar) 828-652-6021. The receptionist will post information on items which have been turned in.

Social Media Guidelines

The purpose of McDowell Technical Community College (MTCC) social networking sites such as Facebook, Instagram, TikTok, Twitter, and YouTube is to support the College's mission, programs, services, and events by offering news and information to the students, faculty, staff, and friends of MTCC. Social media sites are valuable as they provide a method for disseminating information. These procedures are also subject to other more recent forms of social media. MTCC encourages feedback and comments from prospective and current students, alumni, faculty, staff, and members of the community. MTCC remains committed to maintaining these sites as safe, family-friendly forums for sharing information.

Guidelines are provided in order to protect the College's reputation and image. The establishment of guidelines ensures information follows the same high standards as printed and web publications.

To maintain a positive environment for MTCC website visitors, MTCC reserves the right to remove or block posts, users, or any content from official college-sponsored pages.

MTCC expects users to comply with the social website's terms of service.

- Facebook Statement of Rights and Responsibilities
- Instagram Terms of Service
- Twitter Terms of Service
- YouTube Terms of Service
- WordPress Terms of Service

Social Media Guidelines for Students

Online behavior that violates the college's Student Code of Conduct (pg. 61) or the Appropriate Use of Computing Resources Policy which is brought to the attention of the Vice President of Learning and Student Services, will be treated as any other violation of the Student Code of Conduct.

The following types of content are prohibited from the MTCC social networking sites:

1. Derogatory language or demeaning statements about or threats to any third party;
2. Lewd, indecent, or incriminating images or information depicting hazing, sexual harassment, vandalism, stalking, underage drinking, illegal drug use, or any other inappropriate behavior or inappropriate language;
3. Content that violates local, state or federal law;
4. Online gambling;
5. Content that harasses any third party or personal attacks of any kind;
6. Selling goods or services for personal financial profit;
7. Comments or posts that are unrelated to MTCC;
8. Spam;
9. Infringement on copyrights or trademarks; and/or
10. Offensive comments that target or disparage any ethnic, racial, religious, or other group of people.

If you have questions or concerns about a post or comment, contact the Director of Communications. If a sanctioned student club or organization wishes to create a social media web page, the faculty advisor must follow the procedures outlined under Social Media Guidelines for Employees in the MTCC policy and procedure manual.

Note: Refer to Individual Program handbook for potentially more stringent policy and consequences.

Title IX

McDowell Technical Community College (“MTCC”), in compliance with and as required by Title IX of the Education Amendments Act of 1972 and its implementing regulations (“Title IX”) and other civil rights laws, as well as in furtherance of its own values as a higher education institution, does not discriminate on the basis of race, color, national origin, sex, sexual orientation, gender, gender identity, gender expression, pregnancy, disability, age, religion, veteran status, or any other characteristic or status protected by applicable local, state, or federal law in admission, treatment, or access to, or employment in, its programs and activities.

Non Discrimination Notice

McDowell Technical Community College is an Equal Opportunity Institution, complies with applicable federal and state laws prohibiting discrimination on the basis of race, sex, religion, age, ethnic origin, association, or disability. It is the policy of McDowell Technical Community College that no person shall be discriminated against in employment, admissions, or educational activities. The College will provide reasonable accommodations, modifications or adjustments through the use of nondiscriminatory policies and procedures for persons with qualifying disabilities.

IMPORTANT INFORMATION FOR INDIVIDUALS WHO MAY BE VICTIMS OF SEXUAL ASSAULT, DATING VIOLENCE, DOMESTIC VIOLENCE, OR STALKING:

If you or someone you know may have been a victim of the behaviors listed above or any other type of violence, you are strongly encouraged to seek immediate assistance.

ASSISTANCE CAN BE OBTAINED 24 HOURS A DAY, 7 DAYS A WEEK, FROM THE MARION POLICE DEPARTMENT (LOCATED AT 270 SOUTH MAIN ST, MARION, NC AND AVAILABLE BY PHONE AT 911). ASSISTANCE CAN ALSO BE OBTAINED FROM THE McDOWELL COUNTY SHERIFF’S DEPARTMENT (LOCATED AT 593 SPAULDING RD., MARION, NC AND AVAILABLE BY PHONE AT 911)

During business hours (8:30 a.m. to 4:30 p.m., Monday through Friday), you are also strongly encouraged to contact one of the following individuals:

Breanna Wilson, Title IX Coordinator 828-652-0618;
bdrose59@go.mcdowelltech.edu
Breanna’s office is located in the Cedar Building (11).

Ryan Garrison, Deputy Title IX Coordinator 828-652-0627;
rtgarrison55@go.mcdowelltech.edu
Ryan’s office is located in the Cedar Building (11)

For additional information about seeking medical assistance and emotional support, as well as important contact information for local law enforcement agencies, hospitals, and other resources, see the following exhibits on the college website at <https://mcdowelltech.edu/title-ix/>.

Victim Referral Information

Exhibit A: Suggested Actions for People Who Have Experienced Sexual Harassment

Exhibit B: Sexual Misconduct Complaint Form

McDowell Technical Community College

Performance Measures and Standards for Performance Funding

Last revised July 2022 from the 2022 *Performance Measures for Student Success* report by NCCCS.

Measures A, B, C, D, E, F, and G, are required for performance funding.

An asterisk “*” indicates that number is too small to report without violating students’ privacy. A minimum of 20 students is required for a reportable sample size

Measure	Description	Standard(s)	MTCC Performance
A. Basic Skills Student Progress	Index score based on the percentage of Basic Skills Periods of Participation (PoP) with at least one Measurable Skill Gain (MSG).	Excellence Level: 1.348 Baseline: 0.283	0.912
B. College-Level English Success	Index score based on the percentage of first-time fall Associate Degree seeking and transfer pathway students passing a credit-bearing English course with a “C” or better within three years.	Excellence Level: 1.147 Baseline: 0.747	1.147
C. College-Level Math Success	Index score based on the 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.	Excellence Level: 1.192 Baseline: 0.662	0.890
D. First Year Progression	Index score based on the percentage of first-time fall credential-seeking curriculum students graduated prior to or enrolled in postsecondary education the subsequent fall semester.	Excellence Level: 1.065 Baseline: 0.870	1.013
E. Curriculum Completion	Index score based on the percentage of first-time fall credential-seeking curriculum students who graduate, transfer, or are enrolled during the fourth academic year with 42 successfully completed non-developmental hours.	Excellence Level: 1.094 Baseline: 0.853	0.972
F. Licensure and Certification Passing Rate	Index score based on the percentage of first-time test-takers passing licensure and certification exams within each exam. Exams included in this measure are state mandated exams which candidates must pass before becoming active practitioners.	Excellence Level: 1.024 Baseline: 0.809	BLET * Cosmetology * Esthetics * Pract. Nursing 1.02 Nurse Aide 1.00 Reg. Nursing 1.06 EMT-B * EMT-A * EMT-P *
G. College Transfer Performance	Index score based on the percentage of community college students (Associate Degree completers and those who have completed 30 or more articulated transfer credits) transferring at a four-year university or college during the fall semester who remain enrolled at any four-year university or college the subsequent fall semester or graduate prior to.	Excellence Level: 1.024 Baseline: 0.923	0.945

College Summary:

One performance measure Met or Exceeded Excellence Level, Three performance measures were Within Average Band, and Three performance measures were Below Average Band, Above Baseline Level.

Degrees, Diplomas & Certificates

Program Name	Program Code	CIP Code
911 Communication & Operations		
911 Communication & Operations- Associate Degree*	A55470	43.0399
911 Communication & Operations- Diploma*	D55470	43.0399
911 Communication & Operations- Certificate*	C55470	43.0399
*Pending SACSCOC Approval		
Accounting		
Accounting		
Accounting-Associate Degree	A25800A	52.0304
Accounting-Certificate	C25800A	52.0304
Accounting-Certificate/Pathway	C25800AP	52.0304
Accounting and Finance		
Accounting/Finance-Associate Degree	A25800B	52.0304
Accounting/Finance-Certificate	C25800E	52.0304
Accounting-Income Tax Preparation		
Accounting-Income Tax Preparer-Certificate	C25800C	52.0304
Accounting-Other		
Accounts Payable, Accounts Receivable, Bookkeeping-Certificate	C25800B	52.0304
Payroll Accounting Clerk-Certificate	C25800D	52.0304
Advertising and Graphic Design		
Advertising and Graphic Design-Associate Degree	A30100	50.0402
Advertising and Graphic Design-Diploma	D30100	50.0402
Advertising and Graphic Design-Certificate	C30100	50.0402
Advertising and Graphic Design-Certificate/Pathway	C30100P	50.0402
Air Conditioning, Heating & Refrigeration Technology		
Air Conditioning, Heating & Refrigeration Technology- Associate Degree	A35100	47.0201
Air Conditioning, Heating & Refrigeration Technology-Diploma	D35100	47.0201
Air Conditioning, Heating & Refrigeration Technology-Certificate/Pathway	C35100P	47.0201
Air Conditioning, Heating & Refrigeration Technology-Certificate Level I	C35100A	47.0201
Air Conditioning, Heating & Refrigeration Technology-Certificate Level II	C35100B	47.0201
Applied Engineering Technology		
Applied Engineering Technology- Associate Degree	A40130	15.0001
Applied Engineering Technology-Diploma	D40130	15.0001
Applied Engineering Technology-Certificate Level I	C40130A	15.0001
Applied Engineering Technology-Certificate Level II	C40130B	15.0001
Applied Engineering Technology-Certificate/Pathway	C40130P	15.0001
Basic Law Enforcement Training		
Basic Law Enforcement Training-Certificate	C55120	43.0107
Building Construction Technology		
Building and Construction Technology-Diploma	D35140	46.0499
Business Administration		
Business Administration		
Business Administration-Associate Degree	A25120B	52.0201
Business Administration-Certificate	C25120B	52.0201
Business Administration-Certificate/Pathway	C25120P	52.0201
Business Administration-Marketing & Retail		
Business Administration - Marketing & Retailing-Associate Degree	A25120M	52.0201
Business Administration - Marketing & Retailing-Certificate	C25120M	52.0201
Business Administration - Marketing & Retailing-Certificate/Pathway	C25120FP	52.0201
Business Administration-Operations Management		
Business Administration - Operations Management-Associate Degree	A25120O	52.0201
Business Administration - Operations Management Certificate	C25120O	52.0201
Business Administration - Operations Management Certificate/Pathway	C25120OP	52.0201

College Transfer

Associate in Arts	A10100	24.0101
Associate in Arts-Certificate/Pathway	P1012C	24.0101
Associate in Arts in Teacher Preparation	A1010T	24.0101
Associate in Arts in Teacher Preparation- Certificate/Pathway	P1012T	24.0101
Associate in Science in Teacher Preparation	A1040T	24.0101
Associate in Science in Teacher Preparation- Certificate/Pathway	P1042T	24.0101
Associate in Science	A10400	24.0101
Associate in Science-Certificate/Pathway	P1042C	24.0101
Associate in Engineering	A10500	14.0102
Associate in Engineering-Certificate/Pathway	P1052C	14.0102
Associate in General Education Nursing	A1030N	51.1105
Associate in General Education Nursing-Certificate/Pathway	P1032C	51.1105

Computer Integrated Machining

Computer-Integrated Machining-Associate Degree	A50210	48.0510
Computer-Integrated Machining-Diploma	D50210	48.0510
Computer-Integrated Machining-Certificate/Pathway	C50210P	48.0510
Computer-Integrated Machining-Certificate	C50210C	48.0510
Computer-Integrated Machining-Certificate	C50210D	48.0510
Computer-Integrated Machining-Certificate	C50210M	48.0510

Cosmetology

Cosmetology-Associate Degree	A55140	12.0401
Cosmetology-Diploma	D55140	12.0401
Cosmetology-Certificate/Pathway	C55140P	12.0401
Cosmetology Instructor-Certificate	C55160	12.0413

Cyber Crime Technology

Cyber Crime Technology-Associate Degree	A55210	43.0403
Cyber Crime Technology-Certificate	C55210A	43.0403
Cyber Crime Technology-Certificate	C55210B	43.0403
Cyber Crime Technology-Certificate/Pathway	C55210AP	43.0403
Cyber Crime Technology-Certificate/Pathway	C55210BP	43.0403

Early Childhood Education

Early Childhood Education

Early Childhood Education-Career Associate Degree	A55220C	13.1210
Early Childhood Education-Licensure	A55220L	13.1210
Early Childhood Education-Non-Licensure	A55220N	13.1210
Early Childhood-Career Diploma	D55220C	13.1210
Early Childhood-Certificate	C55220C	13.1210
Early Childhood Education-Certificate/Pathway	C55220P	13.1210

Early Childhood Administration

Early Childhood Administration Certificate	C55850	13.1210
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Infant/Toddler Care

Infant/Toddler Care-Certificate	C55290	13.1210
Infant/Toddler Care-Certificate/Pathway	C55290P	

Electrical System Technology

Electrical System Technology-Associate Degree	A35130	46.0302
Electrical System Technology-Diploma	D35130	46.0302
Electrical System Technology-Certificate/Pathway	C35130P	46.0302
Electrical Systems Technology-Certificate Level I	C35130A	46.0302
Electrical Systems Technology-Certificate Level II	C35130B	46.0302

Elementary Education Residency Licensure

Elementary Education Residency Licensure Certificate*	C55490	13.0101
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*Pending SACSCOC Approval

Emergency Management

Emergency Management-Associate Degree	A55460	43.0302
Emergency Management-Certificate	C55460E	43.0302
Emergency Management-Certificate/Pathway	C55460EP	43.0302

Emergency Management-Criminal Justice

Emergency Management-Criminal Justice-Certificate	C55460C	43.0302
Emergency Management-Criminal Justice-Certificate/Pathway	C55460CP	43.0302

Emergency Management-Fire Protection

Emergency Management-Fire Protection-Certificate/Pathway	C55460FP	43.0302
Emergency Management-Fire Technology-Certificate	C55460F	43.0302

Emergency Medical Science

Emergency Medical Science – Associate Degree	A45340A	51.0904
Emergency Medical Science – Paramedic Bridge Program	A45340BR	51.0904
Emergency Medical Science – Certificate	C45340	51.0904
Emergency Medical Science – Certificate/Pathway	C45340P	51.0904

Esthetics Technology

Esthetics Technology-Certificate	C55230	12.0409
Esthetics Technology-Certificate/Pathway	C55230P	12.0409
Esthetics Technology Instructor-Certificate	C55270	12.0413

General Education

General Education-Associate Degree	A10300	24.0199
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General Occupational Technology

General Occupational Technology-Associate Degree	A55280	24.0102
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Healthcare Management Technology

Healthcare Management Technology-Associate Degree	A25200M	51.0705
Healthcare Management Technology – Long-Term Care-Associate Degree	A25200L	51.0705
Healthcare Management Technology – Long-Term Care – Certificate	C25200M	51.0705
Healthcare Management Technology – Receptionist-Certificate	C25200L	51.0705
Healthcare Management Technology – Receptionist-Certificate/Pathway	C25200P	51.0705

Health Information Technology**Health Information Technology**

Health Information Technology-Associate Degree	A45360	51.0707
Health Information Technology-Diploma	D45360	51.0707
Health Information Technology-Certificate/Pathway	C45360P	51.0707
Health Information Technology-Certificate/Pathway	C45360BP	51.0707

Health Information Technology-Health Care Informatics

Health Information Technology-Health Care Informatics-Certificate	C45360IF	51.0707
Health Information Technology-Health Care Informatics-Certificate/Pathway	C45360IP	51.0707

Health Information Technology-Other

HIT-Medical Billing and Coding-Certificate	C45360B	51.0707
HIT-Release of Information-Certificate	C45360A	51.0707

Information Technology**Information Systems**

Information Systems Advanced	C25590B	11.0103
Information Systems	C25590A	11.0103
Information Systems	A25590	11.0103
Information Systems	C25590AP	11.0103
Information Systems - Advanced	C25590BP	11.0103
(Information Systems)	A25590A	11.0103

Software and Web Development

Software & Web Design Advanced	C25590FP	11.0103
Software and Web Design	C25590EP	11.0103
Software & Web Development	C25590E	11.0103
Software & Web Development Advanced	C25590F	11.0103
(Software and Web Development)	A25590C	11.0103

Web Administration

Web Admin & Design	C25590GP	11.0103
Web Admin & Design Advanced	C25590HP	11.0103
(Web Administration and Design)	A25590D	11.0103
Web Adminstration & Design Advanced	C25590H	11.0103
Web Administration & Design	C25590G	11.0103

Manicuring/Nail Technology

Manicuring/Nail Technology-Certificate	C55400	12.0410
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Mechatronics Engineering Technology

Mechatronics Engineering Technology-Associate Degree	A40350	15.0407
Mechatronics Engineering Technology-Diploma	D40350	15.0407
Mechatronics Engineering Technology-Certificate Level I	C40350A	15.0407
Mechatronics Engineering Technology-Certificate Level II	C40350B	15.0407
Mechatronics Engineering Technology-Certificate/Pathway	C40350P	15.0407

Nursing**Associate Degree Nursing**

Associate Degree Nursing	A45110	51.3801
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Practical Nursing

Practical Nursing-Diploma	D45660	51.3901
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Nurse Aide

Nurse Aide-Diploma	D45970	51.3902
Nurse Aide-Certificate	C45840	51.3902
Nurse Aide-Certificate/Pathway	C45840P	51.3902

Office Administration**General Office Administration**

General Office Administration-Associate Degree	A25370A	52.0204
General Office Administration-Diploma	D25370A	52.0204
General Office Administration-Certificate	C25370A	52.0204
Office Administration-Certificate/Pathway	C25370P	52.0204

Office Administration-Other

Office Finance-Associate Degree	A25370B	52.0204
Office Software-Associate Degree	A25370C	52.0204

Photographic Technology

Photographic Technology-Associate Degree	A30280	10.0201
Photography Technology-Certificate	C30280	10.0201
Photographic Technology-Certificate/Pathway	C30280P	10.0201

Transportation**Transportation: Automotive Systems Technology**

Automotive Systems Technology-Associate Degree	A60160	47.0604
Automotive Systems Technology-Diploma	D60160	47.0604
Automotive Systems Technology-Certificate Level I	C60160A	47.0604
Automotive Systems Technology-Certificate Level II	C60160B	47.0604
Automotive Systems Technology-Certificate/Pathway	C60160P	47.0604

Welding Technology

Welding Technology-Associate Degree	A50420	48.0508
Welding Technology-Diploma	D50420	48.0508
Welding Technology-Certificate Level I	C50420A	48.0508
Welding Technology-Certificate Level II	C50420B	48.0508
Welding Technology-Certificate/Pathway	C50420P	48.0508

Adult High School

Adult High School Equivalency (GED)

Adult High School Diploma
Adult High School Equivalency Certificate

Continuing Education Course Completion

Certificate of course completion

Admissions

As a member institution of the North Carolina Community College System, McDowell Technical Community College operates under an “open door” admissions policy. Open door admissions means, “Any person who is a high school graduate or at least 18 years old has the opportunity to pursue the various educational opportunities that are offered by institutions in the system.” Special admission requirements, such as educational qualifications, physical abilities, assessment scores and State Board policy restrictions, are attached to certain curriculums. Applicants scoring below specified minimums on entrance criteria will be advised and required to enroll in classes designed to ensure success in college-level courses.

Some programs have special requirements for admission. Consult the section of this catalog that describes the particular program in which you wish to enroll for a list of the exceptions or requirements.

The College has four academic departments:

Business, Arts & Sciences
Career & Technical Education
Continuing Education & Workforce Development
Health Sciences

Curriculum Admissions

Curriculum classes are offered in all departments except the Continuing Education & Workforce Development Department. Therefore, admission to all departments except the Continuing Education Department are coordinated through and conducted in the Student Services Office. For curriculum admissions, an applicant must be a graduate of an accredited high school or have earned a high school equivalency certificate. Exceptions may be made for Dual Enrollment students, as well as individuals whose age and maturity make success likely.

All students seeking a degree, diploma, or certificate must submit an official copy of their high school transcript. Recent graduates will have the option to submit it to MTCC electronically via the College Application. Paper copies of transcripts must remain in a sealed envelope to be considered official. Official transcripts may also be received via electronic format.

College transcripts may be required, depending on a student’s program of study and/or whether they are receiving Veteran Education Benefits. Select financial aid students may also be required to provide transcripts on a case-by-case basis. Processing times required for high schools and colleges to prepare and send a transcript vary and applicants should plan accordingly.

Continuing Education Admissions

In general, Continuing Education courses are open to persons 16 years of age or older. Because some specialty and advanced courses may be more difficult or require a greater degree of preparation, potential enrollees should be aware of course requirements and consider their potential for success in these courses.

To meet admissions requirements for certain specialized courses, including Fire Service, Law Enforcement or Management Development Training, potential students must be employed by or recommended by one of the requesting training agencies.

Special Admissions

Provisional Admissions

Students who apply too late to secure all supporting documents for admission to a particular semester may be admitted as provisional students. In such cases, all requirements for regular admission must be completed within the first semester of attendance. Students who fail to secure all supporting documents or satisfy requirements for official admission to the College may not be eligible for financial assistance.

Admission of Special Credit Students

A special credit student is one who is enrolled in curriculum credit courses, but who is not working toward a degree or diploma. Special credit students may register to take courses for which they have met prerequisites, provided that such registration does not pre-empt students enrolled in a degree, diploma, or certificate program.

A student may take a maximum of 15 hours in any one semester while classified as a special student. When a student reaches 20 cumulative hours, he/she will be counseled to declare a major or curriculum preference.

Visiting Student Status

A visiting student is defined as one who is a student in good standing at another institution of higher education. A visit-

ing student may enroll at MTCC by completing an application and furnishing transcripts from the parent college (college at which the individual is a regular student).

Visiting students may register to take courses for which they have met prerequisites, provided that such registration does not pre-empt students enrolled in a degree, diploma, or certificate program.

McDowell Early College

McDowell Early College (MEC) is a small, Cooperative Innovative High School high located on the McDowell Technical Community College Campus. MEC is an exciting partnership between McDowell County Schools and McDowell Technical Community College that offers unique educational opportunities designed for a diverse group of students. The mission of MEC is to provide a smaller academic environment that fosters growth and success to prepare students for their future by developing relationships, responsibility, and respect through relevant and rigorous coursework.

McDowell Early College students earn an Associate's degree or two years of transferable credit in addition to their high school diploma. All MEC students are offered a schedule that meets individual needs, abilities and interests. The school provides ongoing academic support in a small school setting to help students meet the high expectations of the Early College Model. Our focus is college readiness. McDowell Early College strives to redefine teaching and learning by using innovative best practices.

For more information, contact the MEC principal at 659-0415.

McDowell Academy for Innovation

McDowell Academy for Innovation (MAI) is a small Cooperative Innovative High school, created in 2018 and co-located on the MTCC campus. MAI students take college classes through a partnership with McDowell Technical Community College. Students are eligible to earn a variety of STEM-focused degrees, diplomas, or certificates. At McDowell Academy for Innovation, every student will experience personalized education and graduate ready for college and career with a network of connections and experiences preparing them for their role in a global economy.

McDowell Academy for Innovation students earn an Associate's degree or two years of transferable credit in addition to their high school diploma. All MAI students are offered a schedule that meets individual needs, abilities and interests. The school provides ongoing academic support in a small school setting to help students meet the high expectations of the Early College Model.

For more information, contact the MAI principal at 659-0448.

Enrollment Limitations

Some curriculum programs have maximum student enrollment limitations and/or reserve space for currently enrolled students. Acceptance to most programs except Nursing and BLET will be on a first come, first served basis as evidenced by the receipt of qualified applications and payment of all appropriate fees.

Applicants who do not register and pay at established times may lose their position.

Readmissions

Students who have withdrawn in good standing, withdrawn while on probation, or who have been suspended for academic reasons should submit requests for readmission to the Chief Academic Officer. Consideration of requests for readmission of students who have withdrawn for these reasons will be made in light of the applicant's ability, evidence of growth and maturity, time elapsed since withdrawing and other extenuating circumstances. Additional consideration will be given to those who have completed course pre-requisites. Enrollment limits and class sequencing will also be considered in evaluating a request for readmission.

Credit For Prior Learning

Advanced Placement

Advanced Placement (AP)			
Advanced Placement (AP) is a program of college preparatory courses for high school students administered by The College Board, an educational nonprofit organization. Standardized AP exams are used to assess student mastery of course content. Students receive scores on a “1” to “5” scale, with “5” being the highest. McDowell Tech will accept scores of a “3” or higher on the approved list below.			
In order to receive college credit, all official scores must be sent to: MTCC 54 College Dr. Marion, NC 28752			
The table below shows course credit that may be granted for specific exam results.			
AP Examinations	Score Required	Hours Granted	College Course Credited
Art History	3	3	ART 111
American History	3	6	HIS 131 & HIS 132
American Politics	3	3	POL 120
Biology	3	4	BIO 111
Biology	5	8	BIO 111 & BIO 112
Calculus AB	3	4	MAT 271
Calculus BC	3	8	MAT 271 & MAT 272
Chemistry	3	4	CHM 151
Chemistry	4	8	CHM 151 & CHM 152
Computer Science A	3	3	CIS 115
English Language & Composition	3	3	ENG 111
English Literature & Composition	3	3	ENG 241
Macroeconomics	3	3	ECO 252
Microeconomics	3	3	ECO 251
Music Listening/Literature (older version)	3	3	MUS 110
Physics 1	3	4	PHY 151
Physics 2	3	4	PHY 152
Physics B	3	8	PHY 151 & PHY 152
Physics C: Electricity & Magnetism	3	4	PHY 252
Physics C: Mechanics	3	4	PHY 251
Psychology	3	3	PSY 150
Spanish Language & Culture (or Language, older version)	3	4	SPA 111/181
Spanish Language & Culture (or Language, older version)	4	8	SPA 112/182 & 211/281
Spanish Language & Culture (or Language, older version)	5	8	SPA 211/281 & 212/282
Statistics	3	4	MAT 152
Unites States Government & Politics	3	3	POL 120
Unites States History	3	6	HIS 131 & HIS 132
World History	3	8	HIS 111 & HIS 112

Credit by Examination

A student may pass a specially prepared examination and receive credit for a course without having to do the normal course work. The student must enroll in the course and present evidence of his knowledge of the subject matter to the instructor prior to requesting credit-by-examination. The student must then present a Credit-by-Examination Request form to the instructor to begin the process. This form may be obtained in the Student Services Office.

If the student passes the exam, he/she will receive a grade of "CR" which will be recorded on the transcript. The hours will be counted toward graduation, but will not be used in calculation of GPA.

A student may earn up to 20% of the course requirements for any curriculum through credit by examination.

Articulation of Continuing Education Credit to Curriculum Credit

In cases where the learning outcomes of a current, industry-recognized credential align with the learning outcomes of a curriculum course(s), credit may be given. Credit may be given for adequately documented and validated courses and industry-recognized credentials. These courses and credentials must be pre-approved by the Curriculum Committee and other subject matter experts based on content and outcomes. All academic program completion requirements must be met. Students should contact the Chief Academic Officer to determine if a credential qualifies for academic credit.

Transfer From Other Schools

Students who complete course work in another accredited college or university may apply for admission to MTCC. An application must be submitted and must include official transcripts for all institutions previously attended. Transfer applicants must have maintained a "satisfactory conduct" standing in the institution from which they are transferring to be accepted as a student in good standing at MTCC.

Academic work completed at accredited colleges and universities will be accepted at full value for required courses passed with the grade of "C." Courses taken at other institutions must have essentially the same content, contact hours and difficulty level as MTCC courses.

In order to receive a degree or diploma from MTCC, a student must earn 25% of his/her program in residence at MTCC with at least a "C" average (see graduation requirements).

Applicants who seek admission with advanced standing at MTCC should make an appointment with an admissions counselor to conduct a transcript evaluation. The admissions officer will conduct an official transcript evaluation when the applicant's admission file is complete. Requests for transfer credit should be made prior to the student's first term of enrollment. All transfer credit will be computed by the end of the first semester of the student's initial enrollment. The applicant can inquire in Student Services about all credits which transfer, preferably prior to enrollment.

A transfer student applying too late to complete pre-requisite requirements or pre-entrance requirements may be admitted as a provisional student. In such a case, all official transcripts must be submitted within the first semester of attendance. Students who neglect to turn in documentation will have a hold placed on their account with no release of transcript and no future registration until the official transcript is received.

A student on academic probation or suspended status from his/her last college or post-secondary institution may be admitted on a probationary basis and may be subject to academic progress regulations as defined in this catalog.

Transfer of Credits from College Level Examination Program

Credit may be allowed for up to 14 semester hours of college work based on appropriate scores on the CLEP General Examination where appropriate to the student's program of study. CLEP subject examinations are evaluated individually if applicable to the program of study.

Transfer of Credits For Military Experience

McDowell Technical Community College recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements and crediting learning from appropriate military training and experience. Veterans of the Armed Forces automatically receive credit for two semester hours of physical education credit. Veterans are eligible to apply for curriculum credit in other areas based on prior education, training and experience. See the Veterans Certifying Official for more information on credit for prior military experience.

Transfer Within Curriculums

McDowell Technical Community College will make all reasonable efforts to assist students who transfer from one curriculum to another within the College. Credits earned in one curriculum will transfer to another when appropriate.

A student's cumulative grade point average will be computed only from the credits transferred to the new curriculum. The appropriate Dean is the primary authority in determining transfer of credits from other schools and within curriculums. When there is doubt about the transfer of a credit, the appropriate Dean will consult the appropriate faculty members. If a student wishes to appeal the decision, the transcript will be referred to the Chief Academic Officer, whose decision will be final.

Transfer To Other Colleges

The college to which a student wishes to transfer is responsible for deciding which credits from McDowell Technical Community College will be accepted. Most colleges and universities will accept MTCC credit for a course if a grade of "C" or higher is earned. Students planning to transfer to senior institutions should strongly consider enrolling in the MTCC College Transfer or General Education program. Transfer of credits from other areas may be limited. Students should seek the advice of an advisor in these instances.

There are many four-year schools which accept transfer technical courses from McDowell Technical Community College. Students should contact four-year schools of their choice to determine which courses will transfer.

Procedures for Students Desiring a Second Degree

1. The student desiring a second degree informs his/her advisor of his/her intent to receive two associate degrees prior to applying for graduation in Student Services.
2. The advisor evaluates the student's transcript to determine if additional semester hours/coursework are required.
3. The advisor documents his/her decision on the Secondary Major Declaration Form.
4. The student applies for graduation in Student Services, submitting a separate application for each degree sought.
5. The Director of Student Services confirms that the Secondary Major Declaration Form and Student Data Change Form are completed. If not, he/she informs the student that they need to speak with their advisor and/or Veterans' Certifying Official before proceeding if he/she plans to receive VA educational benefits.

False Information

Furnishing false data for admission or failure to fully disclose requested information will be grounds for rejection of an application or dismissal of a student who has already been admitted to the college.

Notification of Acceptance (*Does not apply to students in Nursing.)

Applicants will be notified by mail of their admission status within four weeks after their application is received. Placement into a requested program may be determined at a later date. Official notification of acceptance or placement in a program is issued only by the Chief Academic Officer or his/her designee. Applicants not placed in the program of their choice will be notified of this decision. An admissions interview may be requested prior to placement into any program. An applicant who changes his/her mailing address prior to registration for classes, who desires to apply for a different program, or wishes to enroll in a different semester than the one for which he/she originally applied should notify the Student Services Office immediately.

Placement Information

Placement into a specific course of study is based upon standards designed to assure the applicant's success in that course of study.

An individual's educational background, interest, motivation, experience and aptitude will be considered when an application is submitted to the College.

Students may be required to take transition or corequisite courses based on the RISE placement model.

For placement into MAT 271 Calculus I, contact the Student Enrichment Center (659-0418) for placement options.

Career and College Promise

Career and College Promise (CCP) provides seamless dual enrollment educational opportunities for eligible North Carolina high school students in order to accelerate completion of college certificates, diplomas, and associate degrees that lead to college transfer or provide entry-level job skills.

CCP Eligibility Requirements

College Transfer Pathways

Eleventh and twelfth grade College Transfer Pathway students must:

Be a high school junior or senior; AND

Have a 2.8 or higher unweighted high school GPA OR demonstrate college readiness in reading, writing AND math on a state-approved assessment (SAT, PSAT, ACT, Pre-ACT, NCDAP, RISE placement test, AP, IB, Cambridge International Examination.).

Tenth grade College Transfer Pathway students must:

Be in the second semester of tenth grade; AND

Be identified as Gifted in English/Reading AND Math OR have approved Aptitude AND Achievement Test scores of 92%-99%; AND

Have verification of maturity by high school principal and AIG Coordinator; AND

Have written consent of the student's parent/guardian.

Career & Technical Education (CTE) Pathways

Eleventh and twelfth grade CTE Pathway students must:

Be a high school junior or senior; AND

Have a 2.8 or higher unweighted high school GPA OR demonstrate college readiness in reading, writing AND math on a state-approved assessment (SAT, PSAT, ACT, Pre-ACT, NCDAP, RISE placement test, AP, IB, Cambridge International Examination.) OR

Have a Letter of Recommendation from the high school principal or designee.

Tenth grade CTE pathway students must:

Be in the second semester of tenth grade; AND

Have the recommendation of principal/designee and rationale for recommendation; AND

Have passed Math I with grade of C or better; AND

Have scored 3, 4 or 5 on EOC for Math I; AND

Have scored 3, 4 or 5 on 8th grade EOC ELA assessment.

Workforce Continuing Education (WCEP) Pathways

Be a high school junior or senior; AND

Have a 2.8 or higher unweighted high school GPA OR demonstrate college readiness in reading, writing AND math on a state-approved assessment (SAT, PSAT, ACT, Pre-ACT, NCDAP, RISE placement test, AP, IB, Cambridge International Examination.) OR

Have a Letter of Recommendation from the high school principal or designee.

To maintain eligibility in a pathway, a student must maintain a college GPA of at least 2.0 after 6 credit hours and must continue to make progress toward high school graduation. A student who falls below a 2.0 GPA after completing 6 credit hours will be required to meet with the College Liaison or a Career Coach to develop a "Satisfactory Academic Progress" plan.

CCP Pathway options for the 2023-2024 academic year are outlined on the following pages.

More information can be found on the CCP webpage at www.mcdowelltech.edu/CCP/.



2022-2023



Career and College Promise (CCP) allows eligible high school students to enroll in community college courses!

Tuition is FREE!

Students declare pathways that lead to certificates, diplomas, or degrees, as well as providing entry-level job skills in specific areas.

Information may be obtained from the following website:
www.mcdowelltech.edu/CCP/

For enrollment information contact

Emilee Crowder
at 828.659.0427

eccrowder72@go.mcdowelltech.edu

Lydia Warpoole
at 828.659.0427

lwarpool69@go.mcdowelltech.edu

College Transfer Pathways

Associate in Arts P1012C

Credit Hours

ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3

(Pick 1 course)

COM 120	Interpersonal Communications	3
COM 231	Public Speaking	3

(Pick 2 courses)

ART 111	Art Appreciation	3
DRA 111	Theater Appreciation	3
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
MUS 110	Music Appreciation	3

(Pick 3 courses from 2 different disciplines)

ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
HIS 111	World Civilizations I	3
HIS 112	World Civilizations II	3
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3

(Must take at least 1 course)

MAT 143	Quantitative Literacy	3
MAT 152	Statistical Methods I	4
MAT 171	Precalculus Algebra	4

(Pick 1 course)

BIO 111	General Biology I	4
CHM 151	General Chemistry I	4

(Other required)

ACA 122	College Transfer Success	1
Total credit hours: 32-33		

**SPA 111/181 and SPA 112/182 are accessible in this pathway

Associate in Engineering P1052C

ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3

(Pick 1 course)

ART 111	Art Appreciation	3
COM 120	Interpersonal Communications	3
COM 231	Public Speaking	3
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
MUS 110	Music Appreciation	3

(Take 1 course)

ECO 251	Princ of Microeconomics	3
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(Take 2 courses)

MAT 271	Calculus I	4
MAT 272	Calculus II	4

(Pick 2 courses)

CHM 151	General Chemistry I	4
PHY 251	General Physics I	4
PHY 252	General Physics II	4

(Take 2 courses)

EGR 150	Intro to Engineering	2
DFT 170	Engineering Graphics	3

(Other required)

ACA 122	College Transfer Success	1
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Total credit hours: 34

**SPA 111/181 and SPA 112/182 are accessible in this pathway

Associate Nursing P1032C

ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3

(Pick 1 course)

ART 111	Art Appreciation	3
MUS 110	Music Appreciation	3

(Take 2 courses)

PSY 150	General Psychology	3
PSY 241	Developmental Psychology	3

(Take 2 courses)

BIO 168	Anatomy and Physiology I	4
BIO 169	Anatomy and Physiology II	4

(Other required)

ACA 122	College Transfer Success	1
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Total credit hours: 24

Foreign Language Not available in pathway

Associate in Science P1042C

ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3

(Pick 1 course)

COM 120	Interpersonal Communications	3
COM 231	Public Speaking	3

(Pick 1 course)

ART 111	Art Appreciation	3
DRA 111	Theater Appreciation	3
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
MUS 110	Music Appreciation	3

(Pick 2 courses from 2 different disciplines)

ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
HIS 111	World Civilizations I	3
HIS 112	World Civilizations II	3
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3

(Pick 2 courses)

MAT 171	Precalculus Algebra	4
MAT 172	Precalculus Trigonometry	4
MAT 271	Calculus I	4
MAT 272	Calculus II	4

(Pick 1 sequence of courses)

BIO 111	General Bio I &	
BIO 112	General Bio II	8
CHM 151	Gen. Chem. I &	
CHM 152	Gen. Chem. II	8

(Other required)

ACA 122	College Transfer Success	1
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Total credit hours: 35

**SPA 111/181 and SPA 112/182 are accessible in this pathway

**All College Transfer Courses are UGETC
except ACA 122, DFT 170 and EGR 150**

Associate in Arts Teacher Preparation P1012T

ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3
(Pick 1 course)		
COM 120	Interpersonal Communications	3
COM 231	Public Speaking	3
(Pick 2 courses)		
ART 111	Art Appreciation	3
DRA 111	Theater Appreciation	3
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
MUS 110	Music Appreciation	3
(Pick 2 courses from 2 different disciplines)		
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
HIS 111	World Civilizations I	3
HIS 112	World Civilizations II	3
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3
(Must take at least 1 course)		
MAT 143	Quantitative Literacy	3
MAT 152	Statistical Methods I	4
MAT 171	Precalculus Algebra	4
(Pick 1 course)		
BIO 111	General Biology I	4
CHM 151	General Chemistry I	4
(Take 3 courses)		
SOC 225	Social Diversity	3
EDU 187	Teaching & Learning for All	4
EDU 216	Foundations of Education	3
(Other required)		
ACA 122	College Transfer Success	1
Total credit hours: 32-33		

**SPA 111/181 and SPA 112/182 are accessible in this pathway 31

Associate in Science Teacher Preparation P1042T

ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3
(Pick 1 course)		
COM 120	Interpersonal Communications	3
COM 231	Public Speaking	3
(Pick 1 course)		
ART 111	Art Appreciation	3
DRA 111	Theater Appreciation	3
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
MUS 110	Music Appreciation	3
(Pick 1 courses from 2 different disciplines)		
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
HIS 111	World Civilizations I	3
HIS 112	World Civilizations II	3
HIS 131	American History I	3
HIS 132	American History II	3
POL 120	American Government	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3
(Pick 2 courses)		
MAT 171	Precalculus Algebra	4
MAT 172	Precalculus Trigonometry	4
MAT 271	Calculus I	4
MAT 272	Calculus II	4
(Pick 1 sequence of courses)		
BIO 111	General Bio I &	
BIO 112	General Bio II	8
CHM 151	Gen. Chem. I &	
CHM 152	Gen. Chem. II	8
(Take 3 courses)		
SOC 225	Social Diversity	3
EDU 187	Teaching & Learning for All	4
EDU 216	Foundations of Education	3
(Other required)		
ACA 122	College Transfer Success	1
Total credit hours: 35		

**SPA 111/181 and SPA 112/182 are accessible in this pathway

Career & Technical Education Pathways

Accounting C25800AP		Credit Hours
ACC 120	Principles of Financial Account	4
ACC 121	Principles of Managerial Accounting	4
BUS 110	Introduction to Business	3
CIS 110	Introduction to Computers	3
Total credit hours: 14		

Advertising and Graphic Design C30100P		
ART 121	Two- Dimensional Design	3
ART 171	Digital Design 1	3
ART 275	Introduction to Graphic Design	3
GRD 141	Graphic Design I	4
GRD 151	Computer Design Basics	3
Total credit hours: 16		

Air Conditioning, Heating, & Ref. C35100P		
AHR 110	Introduction to Refrigeration	5
AHR 111	HVACR Electricity	3
AHR 112	Heating Technology	4
Total credit hours: 12		

Applied Engineering Technologies C40130P		
ATR 112	Introduction to Automation	3
ELC 131	Circuit Analysis	4
HYD 110	Hydraulics/Pneumatics I	3
MNT 110	Intro to Maintenance Procedures	2
Total credit hours: 12		

Automotive Systems Technology C60160P		
AUT 113	Automotive Servicing I	2
TRN 111	Chassis Maint./Light Repair	4
TRN 112	Powertrain Maint./Light Repair	4
TRN 170	PC Skills for Transportation	2
Total credit hours: 12		

Business Administration C25120P		
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 125	Personal Finance	3
BUS 137	Principles of Management	3
CIS 110	Introduction to Computers	3
Total credit hours: 15		

Business Admin.– Marketing & Retailing C25120FP		
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
CIS 110	Introduction to Computers	3
MKT 120	Principles of Marketing	3
MKT 227	Marketing Applications	3
Total credit hours: 15		

Business Admin.–Operations Management C251200P		
BUS 137	Principles of Management	3
CIS 110	Introduction to Computers	3
ISC 121	Environmental Health & Safety	3
ISC 130	Intro to Quality Control	3
ISC 210	Oper. & Prod Planning	3
OST 136	Word Processing	3
Total credit hours: 18		

Computer –Integrated Machining C50210P		
BPR 111	Print Reading	2
MAC 141	Machine Applications I	4
MAC 142	Machine Applications II	4
MAC 121	Intro to CNC	2
Total credit hours: 12		

Cosmetology C55140P		
COS 111	Cosmetology Concepts I	4
COS 112	Salon I	8
COS 113	Cosmetology Concepts II	4
COS 114	Salon II	8
COS 115	Cosmetology Concepts III	4
COS 116	Salon III	4
COS 117	Cosmetology Concepts IV	2
Total credit hours: 34		

COS: Esthetics Technology C55230P		
COS 119	Esthetics Concepts I	2
COS 120	Esthetics Salon I	6
COS 125	Esthetics Concepts II	2
COS 126	Esthetics Salon II	6
Total credit hours: 16		

Cyber Crime Technology Basic Certificate C55210AP		
CCT 110	Intro to Cyber Crime	3
CCT 112	Ethics & High Technology	3
CIS 110	Introduction to Computers	3
CTS 120	Hardware/Software Support	3
DBA 110	Database Concepts	3
NET 125	Introduction to Networks	3
Total credit hours: 18		

Early Childhood Education C55220P		
EDU 119	Intro to Early Childhood Ed.	4
EDU 131	Child, Family, and Community	3
EDU 145	Child Development II	3
EDU 146	Child Guidance	3
EDU 153	Health, Safety, & Nutrition	3
Total credit hours: 16		

Early Childhood Infant Toddler C55290P		
EDU 119	Intro to Early Childhood Ed	4
EDU 131	Child, Family, and Community	3
EDU 144	Child Development I	3
EDU 153	Health, Safety, & Nutrition	3
EDU 234	Infants, Toddlers, and Twos	3
Total credit hours: 16		

Electrical Systems Technology C35130P		
ELC 113	Residential Wiring	4
ELC 118	National Electrical Code	2
ELC 128	Introduction to PLC	3
ELC 115	Industrial Wiring	4
Total credit hours: 13		

EM: Criminal Justice C55460CP

CJC 111	Intro to Criminal Justice	3
CJC 131	Criminal Law	3
CJC 132	Court Procedure & Evidence	3
CJC 231	Constitutional Law	3
ACA 115	Success & Study Skills	1

Total credit hours: 13**EM: Emergency Management C55460EP**

EPT 130	Mitigation & Preparedness	3
EPT 140	Emergency Management	3
EMS 110	EMT	9
ACA 115	Success & Study Skills	1

Total credit hours: 16**EM: Fire Technology C55460FP**

FIP 120	Intro to Fire Protection	3
FIP 124	Fire Prevention & Public Ed	3
FIP 132	Building Construction	3
FIP 228	Local Govt Finance	3
ACA 115	Success & Study Skills	1

Total credit hours: 13**Emergency Medical Science C45340P**

EMS 110	EMT	9
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
ACA 115	Success & Study Skills	1

Total credit hours: 16**Health Information Technology C45360P**

CIS 111	Basic PC Literacy	2
HIT 110	Intro to Health Care & HIM	3
HIT 112	Health Law Ethics	3
HIT 114	Health Data Systems/Standards	3
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3

Total credit hours: 17**HIT: Medical Billing and Coding C45360BP**

HIT 124	Prof Practice Exp II	1
HIT 215	Revenue Cycle Management	2
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
OST 247	Procedure Coding	3
OST 248	Diagnostic Coding	3
OST 249	Med Coding Certification Prep	2

Total credit hours: 18**Healthcare Management Tech Receptionist C25200P**

BUS 253	Leadership & Management Skills	3
HIT 114	Health Data Systems/Standards	3
HMT 110	Intro to Healthcare Management	3
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3
OST 149	Medical Legal Issues	3

Total credit hours: 18**Information Technology C25590AP**

CIS 110	Introduction to Computers	3
CTS 120	Hardware/Software Support	3
NOS 130	Windows Single User	3
WEB 115	Web Markup and Scripting	3

Total credit hours: 12**IT: Software and Web Development C25590EP**

CSC 151	JAVA Programming	3
DBA 110	Database Concepts	3
WEB 111	Intro to Web Graphics	3
WEB 115	Web Markup and Scripting	3

Total credit hours: 12**IT: Web Admin and Design C25590GP**

WEB 111	Intro to Web Graphics	3
WEB 115	Web Markup and Scripting	3
WEB 120	Intro to Internet Multimedia	3
WEB 214	Social Media	3

Total credit hours: 12**Mechatronics Engineering Technology C40350P**

ATR 112	Intro to Automation	3
DFT 119	Basic Cad	2
EGR 125	Appl Software for Tech	2
EGR 150	Intro to Engineering	2
EIC 112	Intro to PLC	3

Total Credits: 12**Nursing Assistant C45840P**

NAS 101	Nursing Assistant I	6
NAS 102	Nursing Assistant II	6
MED 121	Medical Terminology I	3
MED 122	Medical Terminology II	3

Total credit hours: 18**Office Administration C25370P**

CIS 110	Introduction to Computers	3
OST 136	Word Processing	3
OST 164	Text Editing Apps	3
OST 184	Records Management	3
OST 289	Office Admin. Capstone	3

Total credit hours: 15**Photographic Technology C30280P**

PHO 110	Fundamentals of Photography	5
PHO 115	Basic Studio Lighting	4
PHO 139	Intro to Digital Imaging	3
PHO 120	Intermediate Photography	4
ACA 115	Success & Study Skills	1

Total credit hours: 17**Welding Technology C50420P**

WLD 110	Cutting Processes	2
WLD 115	SMAW (stick) Plate	5
WLD 131	GTAW (TIG) Plate	4
WLD 143	Welding Metallurgy	2

Total credit hours: 13

Academic Regulations

Grading System

Final grades will be issued to all students at the end of the term, based on the criteria outlined below (with the exceptions given).

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

Grade point averages are determined by dividing the total number of quality points by the number of hours attempted. If a course is repeated, the latest grade will be used in determining a student's quality points.

Numerical Grade	Letter Grade	Quality Point Equivalent
90-100	A-Excellent	4 points per credit hour
80-89	B-Above Average	3 points per credit hour
70-79	C-Average	2 points per credit hour
60-69	D-Below Average	1 point per credit hour
Below 60	F-Failure	0 grade point (punitive)
AU-Audit		No effect on grade point average
CR-Credit by Exam		No effect on grade point average
I-Incomplete		After the first day of the subsequent semester, an incomplete grade becomes an "F" (punitive)
NS-No Show (never attended class)		No effect on grade point average
P1-Pass Developmental-Tier 1		No effect on grade point average
P2-Pass Developmental-Tier 2		No effect on grade point average
P3-Pass Developmental-Tier 3		No effect on grade point average
R-Repeat Developmental		No effect on grade point average
W-Withdrawal		No effect on grade point average
No Withdrawals allowed after 75% point		Student receives grade earned

** The above Numerical Grade does not apply to the Cosmetology and Esthetics Programs. Please see individual program handbooks for program requirements.

**A grade of 80 or above is required to pass courses in the HIT, Nurse Aide, Practical Nurse, ADN programs and all developmental courses.

Incompletes

The grade "I," incomplete, may be assigned when a student is unable to complete a course by the end of the semester. The student must present valid reasons why the course cannot be completed and obtain the instructor's approval to receive an incomplete grade. This grade will be replaced with the grade earned when the work to be completed is satisfactorily accomplished prior to the first day of class in the following semester. If the incomplete course is a pre-requisite to a course the student is registered for in the following semester, and if the student is unable to complete the requirements to satisfy the incomplete grade, the student will be withdrawn from the subsequent course. An incomplete grade is treated as a failing grade in GPA computation after the first day of the subsequent semester when the work has not been completed. The faculty member of the course will complete a Change of Grade Form to document that the incomplete has, in fact, been satisfied.

Only under extenuating circumstances may the Chief Academic Officer (CAO) extend the deadline for the completion of an incomplete grade. In such a rare case, the student, faculty and Chief Academic Officer (CAO) will sign a memo of understanding outlining the terms of the extension.

Standards of Progress

All MTCC students are expected to make academic progress toward graduation. The grade point average required for graduation is 2.00, indicating that the student has a C average in all course work. The calculations listed below are the acceptable grade point averages which students are expected to maintain for the number of semester hours they have accumulated.

ASSOCIATE DEGREE PROGRAMS

Cumulative Semester Hours	Minimum Grade Point Average
0 - 10	1.00
11 - 20	1.25
21 - 30	1.50
31 - 40	1.75
41 - 50	1.90
51 - Completion	2.00

VOCATIONAL DIPLOMA PROGRAMS

Cumulative Semester Hours	Minimum Grade Point Average
0 - 10	1.00
11 - 20	1.35
21 - 30	1.75
31 - Completion	2.00

***There are additional regulations for Nursing, HIT, BLET, EMS Paramedic and other specific curriculums. Check with the Student Services Office, the Nursing Department, or your advisor for these regulations. Also, see Graduation Requirements in this Catalog.*

Academic Advisement/Probation

The above cumulative grade point averages are the minimums which must be attained in order for a student to make reasonable progress toward graduation. A 2.00 grade point average is required for graduation. Students who fall below the specified minimum will be placed on Academic Probation for the following semester and will be required to reduce their course loads.

Academic Suspension and Readmission

Students who fail to earn a 2.00 GPA during any semester of academic probation may be suspended from their program of study. The period of suspension will not be less than one semester, nor more than one year. Students who have been suspended for academic deficiencies should submit requests for readmission to the Chief Academic Officer (CAO). Requests for readmission will be considered in light of the applicant's ability, evidence of growth and maturity, time elapsed since suspension and other extenuating circumstances. Additional consideration will be given to those who have completed course pre-requisites. Enrollment limits and class sequencing will also be considered in evaluating a request for readmission.

Recognition of Academic Honor Students

Students enrolled full-time (12 credit hours or more) who receive no incompletes are eligible for the following academic honor's lists:

- President's List - Grade point average of 4.00
- Dean's List - Grade point average of 3.75 - 3.99
- Honor List - Grade point average of 3.50 - 3.74

Academic honor lists are posted on-campus and provided to newspapers each semester.

Faculty Advisors and Success Coaches

Each student enrolled at MTCC will be assigned an onboarding and faculty advisors. The onboarding advisor will provide each student personal assistance in orientation to MTCC's policies and procedures, confirm the student's program major, and help the student register for first semester classes. The onboarding advisor will serve as a success coach for the student throughout the duration of enrollment at MTCC.

The student's faculty advisor will work with the student after the initial enrollment in classes at MTCC. The faculty advisor will provide assistance in developing an educational plan, evaluating the student's progress, and registration for courses for the remaining semesters at MTCC. The student's faculty advisor may be consulted regarding various problems, but must, in all cases, be consulted by the student in the following instances:

1. When planning each semester's schedule (after the first semester).
2. When changing courses within the current program.
3. When changing programs of study.
4. When preparing to enter a final semester of studies to determine graduation eligibility.

If a student is unsure who his or her current advisor is, the student should contact Student Services at 828-652-0622 to obtain the advisor name, location, phone number and email address. Advisors maintain office hours as posted on their office doors.

Registration

MTCC operates on the semester system (Fall, Spring, and Summer). All students are expected to register during the time set aside for that purpose. MTCC offers Pre-Registration dates to give students more time and flexibility to register and meet with their advisors as well as offering a one-time Late Registration Day. These dates are listed in the MTCC Catalog, the Schedule of Classes, and the MTCC website.

Students may not register for a semester until they have paid any deferred or past due charges owed to the College. These fees are paid through the Business Office. Students are responsible for obtaining registration clearance each semester before they are permitted to register for classes.

Procedure for Schedule Changes

Students may change their academic schedules during the prescribed period without scholastic penalty. Courses dropped after the 10% point in the semester are not subject to a refund. Courses dropped after the 30% point in the semester will be marked "WP" (Withdrawal Passing) or "WF" (Withdrawal Failing). A "WF" carries the same weight as an "F" (Failure) in GPA calculations. Withdrawal is not permitted after the 75% point of a semester.

The steps below must be followed before schedule changes are official:

1. Students must speak with a Success Coach before withdrawing from courses.
2. The student secures a Add-Drop-Withdrawal Form from the Student Services Office and completes it.
3. Individual course changes must be approved by the appropriate instructor with a signature on the form.
4. The Add-Drop-Withdrawal Form is submitted to the Registrar's Office, where the change is recorded.
5. Students who do not withdraw officially from a course and who must be administratively withdrawn from the course because of absences will be dropped with a grade in accordance with the rules above.

Procedures for Student Withdrawal

To officially withdraw from the College or from a course, the student must follow these procedures:

1. Students must speak with a Success Coach before withdrawing from courses.
2. The student reports to the Student Services Office to obtain a Drop-Add-Withdrawal form.
3. The student is responsible for obtaining each instructor's signature, last date of attendance and withdrawal grade on the withdrawal form, and is responsible for returning this form back to the Student Services Office. If the circumstances surrounding the withdrawal process do not allow the student to do the above, the Student Services Office will perform the withdrawal procedure for the student upon request.
4. A student may withdraw prior to the 30% point of the semester without scholastic penalty. This procedure, if followed, will entitle the student to have the permanent record show the notation "W" withdrawn. This notation indicates good standing and the privilege of readmission but may affect financial aid.
5. Any student who withdraws, or is withdrawn due to violation of the College's attendance policy, after the 30% point of the semester will receive a grade of "WP" or "WF"
6. Any student who withdraws or is withdrawn after the 75% point of the semester will receive the earned grade, including course work for the remaining portion of the semester.
7. Any student who fails to officially withdraw from the College may receive a grade of "WF"

STUDENTS ARE ENCOURAGED TO INITIATE AND FOLLOW THROUGH WITH OFFICIAL WITHDRAWAL PROCEDURES.

Course Substitutions

Students may be allowed to substitute one course for another to meet graduation requirements. The substituted course must contribute to the goals of the degree program equally as well as the original course. Students must obtain approval from the instructor, advisor, Associate Dean and the Dean of Curriculum Programs/Chief Academic Officer to gain approval. A course substitution form may be obtained in the Student Services Office.

Repeating Courses

A course may be repeated for credit for the purposes of obtaining certification hours, gaining additional knowledge, improving a grade or for the purposes of auditing a class. A student may receive credit hours toward graduation only once for a course. In the case of a course which has been repeated, only the quality points and hours earned in the most recent enrollment will be calculated in the GPA. However, all grades will be shown on the transcript during the semester in which the course was taken.

Students may receive financial aid one additional time for a repeated course that was previously passed if the student is attempting to better that grade. Students may also receive financial aid for a repeated course in which they previously received a grade of "F" regardless of the number of prior attempts, as long as they are maintaining satisfactory academic progress per financial aid guidelines.

Veteran's benefits may not be received by students repeating a course unless it is to achieve the minimum grade required for graduation.

Auditing Courses

Students who wish to audit courses must register and pay the same tuition and fees as students taking courses for credit. Unless the instructor makes an exception, auditing students are subject to the attendance policy (as stated in the *College Catalog and Student Handbook*). Students auditing courses which involve laboratory work may work in labs only during the course's scheduled laboratory hours and under the direct supervision of the instructor. Otherwise, labs are closed to auditing students.

No financial aid is received for audited classes. Audited courses are not eligible for Veteran's educational benefit payments.

*Note: If auditing a course that is a pre-requisite, a student cannot receive credit and progress to the next course. Contact your advisor for additional questions.

Change of Program

All MTCC students wishing to change their program of study must pick up a Major Change Form located in the Student Services Office or www.mcdowelltech.edu. A change of major will be applied at the beginning of each semester. Once your program change has been processed, a new advisor will be assigned for the purpose of re-evaluating your new program and transferring applicable credits.

Students who request a major change from a certificate or diploma program to an associate degree program will have to update placement tests through the Student Enrichment Center.

Credit or Contact Hours

Credit for course work is recorded in semester hours. One semester hour credit is given for one hour of class work, two hours of laboratory or three hours shop work/clinical per week during a 16 week term. Work-based Learning credit is one semester hour of credit for 160 hours of work per semester.

Maximum Course Load

Students are encouraged not to enroll in more courses than they can successfully complete. Students enrolling for 19 credit hours up to 22 maximum credit hours must have special permission from the faculty advisor and Chief Academic Officer and have a GPA of 3.00 or higher.

Class Attendance

The following attendance requirements shall apply to all college students. Faculty members are responsible for administering these attendance rules for their respective courses, for excusing absences, for determining how missed work should be made up, and for assessing grade penalties. Departments and programs may establish stricter attendance policies as required by program accreditation or secondary approving agencies.

1. Students are expected to attend and be on time for all classes, lab or shop sessions and clinical, preceptor, work-based learning and apprenticeship. Students should refer to each course syllabus for individual course

attendance requirements. At the instructor's discretion, students may make up missed class, lab, shop or clinical work. When students must be absent, it is vital that they remain in contact with their instructors. Students who are absent for high-school or college related extracurricular activities, sports, clubs, etc. and are current in their class assignments shall be allowed to make up missed work at the instructor's discretion.

2. Any student who has not attended at least one seated class or completed and submitted one assignment in an online course by the date in which ten percent (10%) of the class has passed will be reported by the instructor as a "no show". A student who has never attended a course by the ten percent (10%) date is no longer enrolled in the class and will not earn credit or receive a tuition refund for the course.
3. The instructor may withdraw any student who has been absent from a course for fourteen (14) consecutive days in a 16-week term or seven (7) consecutive days in a shorter academic term. A student in an online, hybrid, blended, or hy-flex course will be withdrawn following fourteen (14) consecutive days in a 16 week term (or seven (7) consecutive days in shorter academic terms) of missed assignments, missed attendance (for hybrid, blended and hy-flex), and lack of communication with the instructor regarding course participation. Holidays, breaks and weekends are not included when calculating consecutive days. Consistent with policies establishing attendance in online courses, logging into a course site but failing to submit completed work does not constitute attendance.

Please note: Under extenuating circumstances, a student who has never attended by the ten percent (10%) date may petition for reinstatement in the class and earn course credit. The student should notify the instructor, in writing, of the extenuating circumstances prior to the ten percent (10%) date of the class and provide compelling documentation to support the request for reinstatement. Reinstatement will only be considered by the instructor when the absences were due to unforeseeable and uncontrollable circumstances. Reinstatement requires the recommendation of the instructor of the course, the consent of the appropriate dean, and the approval of the chief academic officer.

4. A student's absence while participating in a college-sponsored, school-sponsored or approved activity will be considered an excused absence for participating students. Such excused absences will not be considered in the student's class attendance for withdrawal purposes, nor will excused absences be included in the determination grade for "participation" of which class attendance is a part. The responsibility for making up missed work rests entirely with the student. All assignments, tests, labs, class time and final exams to be missed will be rescheduled prior to the excused absence or otherwise rescheduled at the discretion of the instructor.
5. **Withdrawals:** If a withdrawal is processed prior to the 30% point of a course, a grade of "W" (Withdrawn) will be assigned. If the withdrawal date is after the 30% point, but before the 75% point, the student will be assigned a grade of either "W" (Withdrawn). After the 75% point, the student will receive the grade earned, including coursework for the remaining portion of the semester. (For Individualized Instruction, a student must complete 100% of required hours.)

6. Absences for Religious Observance

In compliance with North Carolina Administrative Code, Title 23, Chapter 2, Sub-Chapter 2C, Section .0213 requirement as authorized by Section 115D of the NC General Statutes, McDowell Technical Community College will grant any student of the College two excused absences each academic year for religious observances required by the faith of the student. The college provides reasonable accommodations including a minimum of two (2) excused absences each academic year, for religious observances required by a student's religious practice or belief.

- a. An academic year shall be defined as starting on July 1 in one year and ending on June 30 in the following year. The Academic Term consists of fall, spring and summer semesters.
- b. The two excused absences may be taken at any time during the academic year either on separate days or on two consecutive days.
- c. The excused absences shall be taken within the absences allowed in the College's approved attendance policy as published in the Academic Information Section of the MTCC Catalog and Student Handbook.
- d. The student must submit a "Request to be Excused for Religious Observance Form" to the Chief Academic Officer or his/her designee for the excused absences at least two (2) weeks prior to the date the student intends to be absent for the religious observance.

- e. A "Request to be Excused for Religious Absence Form" must be completed for each class missed. Forms may be obtained from the Student Services office.
- f. The Chief Academic Officer or their designee shall notify appropriate faculty within 72 hours of receiving the request. Faculty members are expected to note the excused absences as appropriate in class record documents.
- g. Students granted an excused absence for the purpose of religious observance shall be given the opportunity to make up any work or tests missed due to an excused absence within a reasonable accommodation and without undue hardship.
- h. No more than two tests per day may be given to a student who is making up a test or tests due to the excused absence(s).
- i. Instructors/faculty are prohibited from implementing unnecessary sanctions, requiring additional work, or making unreasonable requests of students who are duly granted excused absences for religious observance.
- j. Should other provisions of the NC Administrative Code or the General Statutes apply, the College shall implement requirements to comply with those provisions

Reasonable accommodation: Any change in an academic course or program of study with respect to the ways tasks or responsibilities are customarily done that enables a student to observe his/her religious practice or belief without creating an undue hardship.

Religious practice or belief: A practice or observance that is sincerely held within the tenants of that religious belief.

Undue hardship: An accommodation that would require significant expense or difficulty for the college or would result in the inability of the student to perform an essential function of his or her course/program of study. The determination of undue hardship is dependent on the facts of each individual situation.

7. **Absences for Active Military Duty** The college shall allow any enrolled student who is in the United States Armed Forces who has received temporary or permanent reassignment as a result of military operations and a National Guard service member placed onto active duty status during an academic term to be given an excused absence for the period of time the student is on active duty.
 - a. The college shall provide the student the opportunity to make up any test or other work missed during the excused absence.
 - b. The college shall give the student 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.
 - c. The college shall give the student the option of receiving a temporary grade of "incomplete" or "absent from the final exam" 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 one (1) semester following their return from action service to avoid receiving a failing grade for the course.
 - d. The college shall permit 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.

Procedure for Attendance in All (including online) Classes

Per Department of Education regulations in 34 C.F.R. 668.22 (1) (7), the following activities are considered academic attendance or an academically-related activity:

- Physically attending a class where there is an opportunity for direct interaction between the instructor and students
- Submitting an academic assignment
- Taking an exam, an interactive tutorial, or computer-assisted instruction
- Attending a study group that is assigned by the institution
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course

The following activities would not be considered an academically-related activity:

- Logging into an online class without active participation
- Participating in academic counseling or advising

With the understanding that federal standards regarding attendance in distance education courses are more rigorous than those of the state, the procedure for documenting attendance in online courses should include:

- An activity scheduled for each week that indicates some form of active attendance; such as:
 1. Interactive tutorial in which the student must participate to receive an attendance mark
 2. Video with required completion of at least one question after viewing
 3. Discussion board/interaction with other students in class
 4. Practice exam
 5. Test review
 6. Quiz (less than 5 questions would be acceptable)
 7. Required reading with completion of at least one question after reading
 8. Journal entry based on material covered or read
- An activity would not include simply downloading material for reading, watching a video without interaction or questions, logging in with no indication of work
- There should be at least one activity each week that documents attendance; this documentation should be easily accessible for auditing purposes
- If a student fails to participate in an activity for two consecutive weeks, the student should be withdrawn from the class with a last date of attendance equal to the last documented activity

Grade Reports

Final grade reports will be posted in Self-Service. If the student has any outstanding debt to the college, the grade report will be held until the debt is resolved.

Grades will be changed due to a computational error within six weeks of the due date for final grade submission. Under no circumstances will a student be allowed to do makeup work to improve a grade once final grades have been submitted. All grade changes must be approved by the Registrar.

Change of Name or Address

Students should immediately report any change of name or address on the appropriate form to the Student Services Office.

Student Classification

Full-Time Student:* A student enrolled for 12 or more credit hours.

Part-Time Student:* A student enrolled for less than 12 credit hours.

Freshman: A student with fewer than 32 semester hours of credit.

Sophomore: A student with 32 or more semester hours of credit.

*Since the summer semester is an abbreviated term, 9 or more credit hours is considered full-time during the summer; less than 9 hours is considered part-time.

For financial aid purposes, a student must be enrolled for 12 semester hours of credit during any semester for which he/she wishes to be considered full-time, including the summer semester.

Graduation Requirements

It is the responsibility of each student to know and to meet the graduation requirements of the College in her/his particular program of study and to maintain the minimum required grade average. Counselors and faculty advisors are available to work with individual students, but the final responsibility for meeting graduation requirements lies with the student. The following list constitutes the minimum requirements for graduation:

1. Satisfy proficiency standards in English, math, and reading. Complete all course requirements as outlined by curriculums, achieve an overall grade point average of 2.00 or above with all passing grades.
2. Students who fail individual subjects or have incomplete grades must make up such deficiencies before being allowed to graduate.
3. Application for Degree Completion Forms must be submitted to the Student Services Office at least one semester prior to the completion of course requirements. One semester prior to the semester that the student expects to complete diploma or degree requirements, the student is expected to have a preliminary record check by an academic advisor. It is the student's responsibility to arrange for a final record check with the Director of Student Services or appointed designee.
4. Students must fulfill all financial obligations to the College.
5. If a student is administratively-identified as being eligible for completing a credential, they can be graduated from said credential, even if the student is not actively in the program.

Graduation vs. Conferring of Degrees

McDowell Tech confers degrees three times a year: December (Fall), May (Spring), and August (Summer). Degrees can only be conferred once a student applies to graduate.

Students should apply to graduate in the semester prior to graduation. Application for Degree Completion Forms can be picked up in Student Services, or found on the website.

The graduation ceremony is in May. It is optional for all students. Students who are within 10 hours of program completion in the summer semester may participate in the May graduation ceremony.

There are additional costs for the cap, gown and tassel.

Graduation With Honors and High Honors

A graduate who completes his/her curriculum program at MTCC with an accumulated grade point average of 3.50 to 3.79 on a 4.0 scale will be graduated with "honors." Graduates with an accumulated grade point average of 3.80 to 4.0 will graduate with "high honors." These distinctions will be noted on the diploma and on the student's transcript.

Completion of Two A.A.S. Degrees

Students who fulfill degree requirements for two curriculum programs within a prescribed term of study shall be awarded only one degree at commencement. However, completion of both degree requirements will be noted on the student's permanent record and credentials.

Any MTCC graduate who desires a second degree must fulfill all degree requirements for the second degree plus a minimum of 20 semester hour credits earned in residency beyond the first degree. Students with an Associate Degree from another accredited institution may receive a second Associate Degree from MTCC by fulfilling the conditions outlined above.

Distance/Online Learning

Distance/Online Learning

Distance/Online Learning is teaching and learning across geographical distances through the use of a Learning Management System (LMS), a software program for online course delivery. MTCC utilizes Open LMS for students to use computers and the Internet to access course materials, lectures, notes, assignments, and tests.

Distance learning courses offer a high degree of flexibility and may eliminate barriers to achieving educational goals. Students taking courses by distance learning methods must be self-motivated, self-disciplined learners, and should have average or above average computer skills. Since students work more independently than in traditional courses, this may not be the best method of instruction for all students.

All facilities and resources available to traditional MTCC students are also available to the Distance Learner, including student services, library resources and support services. The same tuition and fees apply, as does the curriculum credit.

Methods of Instruction in Distance Education Classes

- ***Internet/Online (50-53 Section codes designated in the Academic Schedule)*** class instruction is offered off campus and delivered via the Internet. Students receive their assignments and information from an instructor, participate in online discussion forums, submit work, and take tests through Open LMS. Students may be required to come to campus or select a college approved proctor to complete an exam. Instructors are available by MTCC Gmail, telephone, Zoom, and on campus during office hours.

*An **Orientation** for complete online classes is provided and highly recommended for **new students** to attend; the orientation will provide useful information, resources, and tutorials that can help a student to be better prepared to concentrate on the course content, rather than logistics and software issues.*

Location: Main Campus. Or Online Orientation Class.

- ***Primarily Internet with Mandatory Class Meetings (54-56 sections)***
- ***Internet with Work Experience (57-58 sections)***
- ***Clinical/Capstone***
- ***Hybrid and Blended (20-39 section codes designated in the Academic Schedule)*** courses are offered on campus, and have an internet component. Students will meet with their professor in a classroom at predetermined days/times. The online portion of the course is supplemented with class notes, assignments, tests, and discussion forums. Some classes utilize additional programs that require internet access as a part of the course. A few of the online assisted programs utilized at MTCC are My Math Lab, My Art Lab, Web Tutor, and My Education Lab. The instructor will explain the online components of that particular course.
- ***Traditional Day Seated (01-05 sections)*** – provide an online component with LMS, (Syllabus, Grades etc.)
- ***Traditional Evening Seated (06-09 sections)*** – provide an online component with LMS (Syllabus, Grades etc.)

Non-Traditional Classes

Individualized Instruction (Independent Study) (10 section code)

Students may, under certain circumstances, register for courses by Individualized Instruction. Students who wish to register for a course through Individualized Instruction should contact the Student Services Office to procure the appropriate form to be completed.

The student is required to have:

1. A 2.50 grade point average or recommendation of faculty advisor
2. Present written documentation for his/her inability to take the course in a regular classroom setting.
3. Submit the "Individualized Instructions" Form to Office of Student Services with the following signatures:
 - a. Instructor.
 - b. Advisor.
 - c. Department Chair or Associate Dean.
 - d. Chief Academic Officer

No more than one course per semester may be taken as Individualized Instruction, for a maximum of 12 semester hours that can be counted toward graduation.

Work-Based Learning(WBL)

Work-Based Learning is designed to give students an opportunity to receive non-required core credit, and in some cases, required credit for on-the-job work experience. Students participating in a work-based learning course will work under the direction of MTCC's assigned Work-Based Learning Coordinator for the student's specific program of study, their job supervisor, and their Curriculum Advisor. The work experience used for WBL must be significantly related to the student's program of study.

Eligibility

Any student who is enrolled in a curriculum program which offers WBL for academic credit may be eligible if they meet the following requirements:

1. Be approved by his/her advisor.
2. Be approved by the WBL Coordinator.
3. Have an employer or gain an employer that agrees to participate in the WBL program and follow the guidelines required in the WBL Student Handbook.
4. The employment is significantly related to the student's program of study.

Academic Credit

Students may earn a maximum of two WBL credits in one semester (four WBL credits if enrolled in an Apprenticeship NC program in one semester). The work-based learning student may receive a maximum of eight total hours of academic credit for an approved Associate of Applied Science (sixteen total hours of academic credit for an approved Associated of Applied Science when enrolled in an Apprentice NC program), up to four total hours of academic credit for an approved Diploma program (eight total hours of academic credit for an approved Diploma program when enrolled in an Apprentice NC program), up to two total hours of academic credit for an approved Certificate program, and one credit hour of academic credit in the Associate of Arts program. One college credit hour of WBL requires 160 hours of work.

WBL Options

Eligible students in the College Transfer program must use WBL credit for non-required core credit. Students in Technical Degree programs must use WBL credit for non-required core credit, except in programs where WBL courses are listed as a requirement. Substituting WBL for required curriculum courses must be approved by the Advisor, Department Chair, Associate Dean, Chief Academic Officer and the WBL Coordinator.

Application Procedure

Students interested in participating in the WBL program must contact the WBL Coordinator for their program of study and their curriculum advisor. Students are selected for WBL based on an evaluation of their interview and other pertinent criteria. After a student has been approved for WBL, the curriculum advisor will assist him/her in locating an appropriate assignment. Students already working must have the approval of the College and employer.

Registration

Students must have the approval of the WBL Coordinator and curriculum advisor before registering for a WBL work experience. Those students who are approved must follow normal registration procedures. Students are invited to inquire for more detailed information regarding WBL from their program advisor.

Apprenticeship Training

If a system of "learning by doing" under the guidance of "master craftsmen" has endured for over 4,000 years, the system undoubtedly contains basic qualitative factors for our contemporary society. These factors should be identified clearly and implemented properly where such training is needed.

North Carolina is requiring increasingly greater numbers of highly trained men and women to keep pace with our rapidly changing economy. New demands on the abilities and experience of workers because of changing methods, materials and technology, call for a new look into educational methods. Apprenticeship is an effective means to develop formal skills. As such, it makes a major contribution to our state's economic growth.

McDowell Technical Community College can help train an employed apprentice by making available necessary courses, instructors and classrooms for the educational piece to ApprenticeNC.

The main objective for the Apprenticeship Program is to combine on-the-job training with a program of formal re-

lated instruction through MTCC. The major objective of the related instruction is to teach an apprentice that part of the technical information pertaining to his/her trade which can best be taught in the classroom. Other objectives include: development of an ability to apply technical related information to his or her trade, involvement of proper attitudes and human relations, and adjustment to social problems encountered in the world of work. The North Carolina Community College ApprenticeNC program has mandated that related training be required of every ApprenticeNC participant.

MTCC has courses in the curriculum program that offer the apprentice an opportunity to acquire an Associate Degree, Diploma, Certificate, or Industry Recognized Credential at the same time they are completing the Apprenticeship Program.

Apprenticeships include pre-apprentice, adult apprentice, and youth apprentice programs. Students enrolled in an apprenticeship program earn pay from an employer. Many times the employer pays while the employee is attending college classes. In addition, youth apprentices attend college tuition-waived. Adults participating in an apprenticeship program may be eligible for state scholarships. For more detailed information, students should contact their program advisor.

High School Completion

Adults may complete high school education through the Adult High School Diploma Program or the High School Equivalency Program. These programs are available to all non-high school graduates who are at least eighteen years of age or those sixteen years of age who have officially withdrawn from the public school. Students between the ages of sixteen and eighteen must have a minor permission form signed by a parent or legal guardian, as well as the signature of the principal or superintendent of the last high school attended. Please note that students 16-17 years of age must contact the College and Career Readiness Department to complete registration and orientation to be eligible to take adult high school courses or high school equivalency assessments in North Carolina.

The Adult High School Program offers instruction to assist learners in preparing to successfully complete the credits required for a High School Diploma. Accumulation of a pre-determined number of credits as approved by McDowell County Schools (MCS) is required. Required courses are based on a transcript evaluation from the high school last attended and may include: English, mathematics, science, social studies, health, and electives. Students must meet enrollment requirements and provide an official, sealed transcript from the high school last attended.

The High School Equivalency (HSE) Diploma Program offers instruction to assist learners in preparing to successfully pass a designated high school equivalency assessment. The three nationally-recognized assessments used to obtain a state-issued High School Equivalency credential in North Carolina are GED®, HiSET® and TASC®. All three High School Equivalency assessments are recognized by US Department of Education USDOE GEN-14-16 (link is external) and cover the same content areas. Passing any one of the assessments will lead to the same High School Equivalency Diploma issued by the North Carolina State Board of Community Colleges. Currently, MTCC offers two of the testing options, the GED® and the HiSET® examination.

The GED® Testing fee is \$80.00 and is a computer-based test of four subjects (Language Arts, Science, Social Studies, and Mathematics). Students may retake the test up to two times for free in the same calendar year.

The HiSET® Testing fee is \$50.00 and is a computer-based test of five subjects (Reading, Writing, Science, Social Studies, and Mathematics). Students may retake the test up to two times for free in the same calendar year.

Student Expenses

McDowell Technical Community College receives financial support from local, state and federal sources, allowing educational opportunities at a minimum cost. **Tuition fees are set by the State Board of Community Colleges and are subject to change without notice.** Cost of textbooks and supplies are additional expenses which vary according to the program of study. The payment of tuition and all required fees must be made at the time of registration unless deferred payment arrangements have been made with the Business Office.

**Students are not officially registered until tuition payment and fees have been received in the Business Office or deferred by Financial Aid or a signed Promissory Note.*

***The following information applies to students enrolled in curriculum programs (technical, vocational, college transfer and general education). For information on Continuing Education fees, see the appropriate section of this catalog.*

TUITION (In-State)

**\$76.00 per credit hour, up to a maximum tuition charge
of \$1,216.00 per semester.
[16 or more credit hours=\$1,216.00]**

TUITION (Out-of-State)

Any student whose legal residence is outside the State of North Carolina, or, in the case of students who are boarding or living with relatives in the community, whose parents or guardians are living outside the State, shall pay tuition fees as follows: \$268.00 per semester credit hour, up to 16 credit hours; maximum tuition charge of \$4,288.00 per semester.

Past Due Accounts

Students may not register for a semester, receive transcripts or participate in graduation until deferred or past due charges are paid in the Business Office.

Residency Status For Tuition Purposes

Under North Carolina law, persons must qualify as state residents for a tuition rate lower than that for non-residents.

Residency Determination Service

All individuals applying to MTCC will be required to complete the online residency determination prior to applying to the college. It is recommended that applicants complete the residency determination well in advance of the semester they wish to start. Upon completion of the residency determination, students will be issued a Residency Certification Number (RCN) which will be utilized at all colleges in NC.

MTCC will continue to work with students who have business sponsorships, are using military benefits or other exceptions allowed by the state. All other residency determinations will be made by CFI and not MTCC.

The Residency Determination Service will provide separate processes to reach a residency classification. Most students will only be required to complete the Initial Consideration process. The Reconsideration and Appeal processes are for those students who experience a change in circumstances (Reconsideration) or who have not had a change in status and believe their residency classification is incorrect (appeal).

All students, parents, faculty, staff, and constituents of the North Carolina Community College System should refer to the Residency website at www.ncresidency.org for more current details regarding the North Carolina Residency Determination Service, processes and required residency guidelines.

Tuition Exemptions

College tuition exemptions are as follows:

- Current high school students taking courses at community colleges.
- Some students enrolled in the BLET training program .
- Any person who is the survivor of a law enforcement officer, firefighter, volunteer firefighter, or rescue squad worker killed as a direct result of traumatic injury sustained in the line of duty may be eligible for a tuition waiver.
- Any spouse or children (ages 17 to 22) of law enforcement officers, firefighters, volunteer firefighters, or rescue squad workers who are permanently and totally disabled as a result of a traumatic injury sustained in the line of duty may be eligible for waiver of tuition.

Late Registration Fee

Currently enrolled students who do not pay tuition and fees on or before the day of registration will be assessed a \$5.00 late charge. New students or former students (students who were not enrolled during the past academic year) who register during the prescribed registration period will not be assessed a late registration fee.

Activity Fee

All curriculum students are required to pay the Student Government Activity Fee as follows:

\$20.00 per semester

These fees are not refundable except when approved by the Vice President for Finance and Administration according to Business Office policy.

Student Insurance Fee

In order that every student may be covered by insurance in case of an accident, institutional policy requires that each student enroll in the accident insurance program at registration. The established fee is \$1.30 per semester. This fee is not refundable.

Liability Insurance

Students enrolled in Practical Nursing Education, Associate Degree Nursing, Nurse Aide, Teacher Associate, Cosmetology, Nail Technology, Health Information Technology, Phlebotomy and Early Childhood Associate are required to purchase professional liability insurance coverage. The cost of liability insurance is \$14.50 per year.

Technology Fee

In order to offset the cost of copies, toner, state-of-the-art computer labs, and other technology made available to students, a fee of \$1.50 per credit hour, up to a maximum of \$24.00 per semester, is charged to each student at the time of registration. This fee is not refundable.

Identification Badge

All curriculum students are required to purchase a picture identification badge to be on his/her person at all times while on the campus grounds for a fee of \$5.00 for the academic year.

Campus Access Parking and Security Fee (CAPS)

Parking facilities are available for students, visitors, staff and faculty. All Curriculum students are required to pay a \$20.00 per semester CAPS fee. CAPS fee receipts are utilized for student parking, campus security costs, including but not limited to, salaries, related benefits and operating costs associated with security personnel; contracted security services; vehicles, equipment and capital improvements necessary to secure college property.

Fees For Special Purposes-Student Success Fee

All curriculum students are required to pay a Student Success Fee of \$5.00 per semester. This fee pays for the printed diploma, diploma cover, and large mailing envelope. Additionally, students are required to purchase a cap/gown/tassell if they participate in the graduation ceremony. The Student Success Fee funds may also be utilized to pay for services or equipment that will benefit all students.

Educational Testing Fee

Students enrolled in the Practical Nursing Education and Associate Degree Nursing Programs are charged an educational testing fee each semester. There are testing fees for PNE and for ADN students which will be provided at student orientation.

Transcript Copy Fee

Students should go to Student Services to request a transcript. A fee of \$3.00 is charged for copies of official transcripts.

Additional Expenses

Some curricula require students to purchase additional supplies, equipment and/or uniforms. Students should contact the instructor/advisor in the curriculum they plan to enter.

Book Costs

Students are required to purchase the necessary textbooks for courses. Copying of textbooks is not allowed and is a violation of copyright laws in most cases. The average cost ranges from approximately \$500 to \$800 per semester, depending on the student's chosen curriculum. Workbooks and certain text materials which are expendable items may be required by some instructors.

Continuing Education Fire, Rescue and EMS College Fee

Students attending the McDowell Fire, Rescue and EMS College will be charged a fee of \$15.00.

Returned Check Fee

A \$35.⁰⁰ service charge is assessed for each returned check.

Refund Policy

Tuition refunds are not automatic; it is the student's responsibility to file a request. Tuition refunds for students shall not be made unless the student is, in the judgment of the institution, compelled to withdraw for unavoidable reasons. A 100% tuition refund can be made to a student who withdraws by registration day. A 75% tuition refund can be made to a student who withdraws before the 10% point in the semester. An official withdrawal must be made by completing the "Add/Drop/Withdrawal" form. Tuition refunds will not be considered after the 10% point in the semester. There is no refund made on activity fees or insurance unless the class is cancelled. "Add/Drop Withdrawal" forms may be obtained in the Student Services Office.

Students will receive a copy of the textbook refund policy when textbooks are published in the College Bookstore. Books must be returned within ten days of registration for consideration of refund. All refunds are subject to the terms and conditions stated on the textbook refund policy.

Proctored Test Fee

Non-MTCC Course Proctoring: McDowell Technical Community College (MTCC) offers proctoring services through the UNC Online Proctoring Network and for other colleges and universities as a community service. Proctoring is available in the Academic Resource Center (ARC) anytime during the hours of operation, when classes are in session. All proctored exams must be completed at least 30 minutes before closing time. There is a charge of \$25.00 per test for proctoring services. Proctoring fees may be paid in person in the Business Office. Fees must be paid prior to the testing appointment. Students must bring this receipt of payment to their scheduled proctoring appointment.

Student Financial Aid

Students who have satisfactory academic records and are in need of aid may qualify for financial assistance. Although the primary responsibility for financing an education remains with students and families, McDowell Technical Community College participates in several programs designed to supplement individual and family contributions. Financial aid may consist of grants, scholarships, campus employment, or any combination of these as determined by the policies of the Financial Aid Office.

Eligibility for Financial Aid

Eligibility requirements for receiving financial aid may change from year to year. Specific requirements are established by the U.S. Department of Education for federally funded aid programs. The North Carolina State Education Assistance Authority and the North Carolina Community College System determine eligibility for state funded programs. Any local and/or private scholarship sources determine the eligibility for awarding funds from their respective programs.

Students must be in a program leading to a degree, diploma, or eligible certificate (at least 16 semester hours and/or 38 contact hours in length) to be eligible for Federal or state financial aid. Therefore, students enrolled as Special Credit/Undecided are not eligible to receive Federal, or state, financial aid. In addition, any student in default of a student loan or owing a repayment of Pell Grant funds will not be awarded financial aid. Students must have a high school diploma, adult high school diploma or GED certificate in order to receive federal and/or state financial aid.

All students receiving financial aid must maintain satisfactory academic progress. At MTCC, students must maintain a grade point average of 2.0 and complete 67% of all credit hours attempted. Students that receive financial aid and subsequently withdraw from classes before the end of the semester may be required to repay a portion of Pell Grant, SEOG funds and state funds.

Students falling below the minimum standard for academic progress and/or in ineligible status due to overpayment of Pell Grant funds or student loan default should contact the MTCC Financial Aid Office to determine how their eligibility may be regained. (See upcoming section regarding satisfactory academic progress for further explanation.)

Important Information for Pell Grant Recipients Regarding Lifetime Eligibility

In December 2011, President Obama signed into law the Consolidated Appropriations Act of 2012 (Public Law 112-74). This law significantly impacts Federal Student Aid Programs.

One of the most significant changes is Federal Pell Grant Duration of Eligibility. The law reduces the duration of a student's eligibility to receive a Federal Pell Grant to 12 full-time semesters (or it's equivalent). This provision applies to all Pell Grant eligible students effective the 2012/2013 academic year. The calculation of the duration of the student's eligibility will include all years, no matter how far in the past, that the student has received Federal Pell Grant funding. Therefore, every semester that a student has received Pell Grant funding will count toward the semester limit. Students that have attended at less than full-time status in the past, or at present, will be assessed accordingly.

The MTCC Financial Aid Office will attempt to notify students of their remaining eligibility as they apply or reapply for financial aid.

Application For Financial Aid

Students applying for Financial Aid at MTCC should complete the Free Application for Federal Student Aid (FAFSA). The FAFSA is completed and submitted via an online process at www.studentaid.gov. There is not a technical deadline to apply for financial aid at MTCC, but students should apply at least 8 weeks prior to the beginning of their first semester at MTCC. The priority filing deadline for NC grants is August 15th annually. Funds are limited in some financial aid categories (i.e. Federal Work Study and Federal Supplemental Educational Opportunity Grant (FSEOG)). Therefore, early applicants are most likely to receive assistance if eligible and funds are available. Students may also be required to submit additional internal and external scholarship applications if interested in applying for aid other than or in addition to Federal and State funds. Scholarship applications can be found on the MTCC Financial Aid Office webpage, as well as on the MTCC Foundation webpage.

Student financial aid information is kept confidential within the MTCC Financial Aid Office. Financial Aid awards can be adjusted according to changes in eligibility and enrollment.

Awarding of Financial Aid

Most awards on the student's award offer letter are based on full-time enrollment. The award will be reduced proportionately if the student attends less than full-time. The requirement for full-time eligibility for Federal financial aid is 12 or more hours, $\frac{3}{4}$ time is 9-11 hours, $\frac{1}{2}$ time is 6-8 hours, and less than half-time is 1-5 hours. IN some cases, funds may be disbursed to students attending less than $\frac{1}{2}$ time. Students must always be enrolled in at least six credit hours to be eligible for the North Carolina Scholarship.

Because of the number of credit and/or contact hours, the following certificate are not eligible for financial aid:

- C25800A Accounting Certificate
- C35100A Air Conditioning, Heating & Refrigeration Certificate Level 1
- C40130A Applied Engineering Technology Certificate Level 1
- C60160A Automotive Systems Technology Certificate Level 1
- C35130A Electrical Systems Technology Certificate Level 1
- C55460C Emergency Management- Criminal Justice Certificate
- C55460F Emergency Management- Fire Technology Certificate
- C25590A Information Systems Certificate
- C25590B Information Systems (Advanced) Certificate
- C25590E Information Technology Software Development Certificate
- C25590F Information Technology Advanced Software and Web Development Certificate
- C25590G Information Technology Web Administration and Design Certificate
- C25590H Information Technology Web Administration and Design Advanced Certificate
- C40350A Mechatronics Engineering Technology Certificate Level 1
- C50420A Welding Technology Certificate Level 1

Nondiscrimination in Aid Awards

As with all programs of the College, financial aid awards are made equitably without regard to age, race, color, sex, handicap, disability, religion, political affiliation, or national/ethnic origin. For further information, see the College's policies on discrimination in the General Information Section of this catalog.

Year-Round Pell Grants and Crossover Periods

Beginning with the 2017-2018 academic year, students may be eligible to receive 150% of their yearly scheduled Pell Grant award for the year. To be eligible for the additional Pell Grant funds, the student must meet the following criteria:

- Must be eligible to receive Pell Grant Funds based on a valid and completed financial aid application.
- Must be enrolled at least half-time (six or more credit hours) in the additional semester of eligibility.
- Must be enrolled in an eligible degree, diploma or certificate and taking classes within that program.
- Must be meeting satisfactory academic progress.

The additional Pell Grant funds received cannot exceed 50% of the student's yearly scheduled Pell Grant award. Additional funds will be determined on a student-by-student basis and specific to the award year.

Satisfactory Academic Progress Standards

Federal regulations require that institutions of higher learning establish minimum standards of Satisfactory Academic Progress (SAP) that students must meet in order to receive federal/state financial aid. This progress is measured qualitatively and quantitatively. At McDowell Technical Community College, the records of students are evaluated at the end of each semester, including summer. In order to accurately measure a student's progress, the total academic record must be considered. This includes classes transferred from other institutions, developmental/remedial and curriculum classes. All classes transferred in from other colleges must be in the student's program of study at MTCC. These classes are counted as attempted and completed in the SAP calculation. Incomplete grades that are not finalized with a passing grade will be considered an 'F' grade and calculated into the GPA accordingly. Students that withdraw from a class with a 'Withdrawal Passing' grade will not have their GPA affected by that grade, but it will lower the student's completion (quantitative) rate. However, students withdrawn with a grade of 'WF' will have that grade calculate into their GPA as an 'F' grade and the completion rate will also lower. All grades are used in the calculation of overall GPA for SAP purposes, even if the class is retaken and a better grade is received. In this circumstance, both classes will be part of the calculation.

To be eligible for financial aid, students must meet the following minimum guidelines:

- Qualitative: Maintain a minimum grade point average (GPA) of 2.0
- Quantitative: Complete a minimum of 67% of cumulative credit hours attempted. Successful completion is defined as receiving a grade of A, B, C, or D.
- Time Frame: Must complete a program of study in a timeframe not to exceed 150% of the length of the program for full-time students. Transfer credits used toward the student's program of study will be considered for maximum time frame.

If a student fails to maintain satisfactory academic progress standards by either quantitative and/or qualitative measures, he/she will be placed on Warning for the following academic term. For the student to continue to receive aid while on Warning, the student must sign a Statement of Academic Warning and include a statement must include the reasons for being unsuccessful in prior semesters(s) and a personal plan as to how they will be effective in completing all classes with passing grades. This statement is presented to the Financial Aid Director or the Financial Aid Officer for consideration. If the warning status is

granted, the student will receive aid for the upcoming semester and must agree to complete all classes with a grade of 'C' or better. Failure to do so will result in suspension of Federal and/or State financial aid. If the student is unable to meet the minimum overall academic standards despite successful completion of all classes in the semester of warning, he/she may complete the Financial Aid Satisfactory Academic Progress Appeal Request to continue financial aid eligibility. The student will be counseled of the probability of this situation prior to being awarded aid for future terms. Additionally, if a student does not meet the requirements set forth in the Statement of Financial Aid Warning, he/she must appeal via the Financial Aid Satisfactory Academic Progress Appeal Request to apply for future financial aid eligibility. Appeal decisions are made by the MTCC Financial Aid/Scholarship Committee and are final. Only one appeal per academic year will be considered.

Financial Aid Appeal

Students who have been unable to bring their completion rate and/or grade point average (GPA) up to the acceptable standards required (67% of attempted courses and 2.0 GPA) after the financial aid warning stage will be placed on financial aid suspension. Students placed on financial aid suspension have a right to appeal this decision. Mitigating circumstances for appeal include, but are not limited to:

- Death of an immediate family member
- Illness/injury and/or hospitalization of themselves or an immediate family member
- Changes in academic program
- Other extenuating circumstances that were not foreseeable to the student and affected their ability to meet academic progress standards.

To appeal the suspension of financial aid, the student must submit their MTCC Financial Aid Satisfactory Academic Progress (SAP) Appeal to the MTCC Financial Aid Office. Within this request, the student is asked to explain the circumstances surrounding their current SAP status, identify which appeal category best applies to their circumstances, give a personalized, detailed academic plan and documentation of the circumstances cited. Acceptable documentation could be doctor's and/or hospital notes, police reports, court documents and statements from witnesses that are privy to the situation. The student is also required to meet personally with their academic advisor about their plan and provide documentation they have done so. The advisor and student will determine how many classes have been completed and how many remain in order for the student to complete their program of study.

Appeals are accepted at any time. Appeals will be reviewed and a letter sent to the student via US Postal Service mail within 3-5 business days of submission of the appeal. (Note that during peak processing time, this may increase to 5-7 business days.)

Each appeal is reviewed by the Director of Financial Aid for completion and adequate documentation. If the appeal form is complete and all required documentation is attached, the Director of Financial Aid will review the appeal request. If the appeal form is incomplete or is missing information, the appeal request will not be considered.

If the appeal is approved, a contract between the MTCC Financial Aid Office and the student is created by the Director. This contract outlines the requirements of the appeal, which are updated on a student-by-student basis. However, each appeal will state the student must earn at least 67% of all hours attempted in the specific term and earn at least a 2.0 GPA in the specific term.

If the appeal is denied, the student may then request a face-to-face interview with the Director of Financial Aid. The decision of the Financial Aid Director is final. Students are limited to one appeal per academic year.

Student attempting to regain financial aid eligibility remain ineligible for financial aid assistance until the appeal process is completed and a definite decision has been made. Students are informed of their responsibility to pay tuition, fees and book expenses until that time.

Title IV Repayment Policy

Per Federal Financial Aid Regulations, students receiving financial aid from Title IV funds (Federal Pell Grant & Federal Supplemental Educational Opportunity Grant) will be required to repay a portion of their awarded financial aid if the student withdraws from all classes prior to the 60% point of the semester. If a student withdraws after the 60% point of the semester, 100% of all aid is considered earned. These requirements do not apply to any student who does not actually withdraw from all classes. For example, if a student enrolled in 12 credit hours withdraws from a three credit hour course only, because the student has nine remaining hours, this is not a complete withdrawal.

Students eligible for federal financial aid begin earning Title IV funds on the first day of class attendance. Students are awarded funds on the assumption that he/she is eligible for the full amount received. Students that stop attending classes should obtain a drop/withdrawal form from the Student Services department. Each instructor should be contacted so that the last day of attendance can be documented and the appropriate grade given. If the student ceases to attend without informing his/her instructor and/or the Registrar's office, the student will be withdrawn from classes by the instructor as the maximum absence number in the class is reached.

Once the student is withdrawn from all classes, the MTCC Financial Aid office is responsible for calculating any amount of **overpayment based on the last date of attendance** if the student completely withdraws from all classes. If the student withdraws prior to the 60% point of the semester, a calculation of unearned financial aid will be completed and the amount of funds owed by the school and student will be determined. If the student withdraws after the 60% point, the calculation will still be completed.

However, the student will not owe return funds. If the student withdraws prior to the 60% point of the semester, he or she could be responsible for repayment in part to the US Department of Education (DOE), in addition to McDowell Technical Community College (MTCC). The student is given written notification via the US Postal Service of the amount that is owed due to overpayment.

There are two amounts that can be owed when the Title IV recalculation is done. The first amount is the portion of tuition, fees and books that the student did not earn. The school must initially return this portion and then the student is billed for this amount. The second amount is the portion of the financial aid disbursement that the student owes back to DOE.

The amount of repayment is due in full when notification is received. As long as there is any unpaid balance at MTCC or with DOE, the student will not be awarded financial aid funds. Additionally, any unpaid balance to MTCC will prevent the student from future registrations or receiving MTCC transcripts.

The College returns Title IV funds to the programs from which the student received aid during the payment period, in the following order, up to the net amount disbursed from each source:

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant

The College will return their portion of unearned Title IV funds within 45 days of the date the institution determined the student withdrew.

The student is responsible for repaying their portion of the original grant overpayment that is in excess of the total Title IV grant funds that he or she received. Student overpayments of \$50 or less are not to be repaid. A written notification will be sent to the student by the Financial Aid Office.

A student is allowed 45 days from the date of notification to repay grant overpayments to the College. A student who does not repay their portion of the funds within 45 days becomes ineligible for Title IV funds.

If the payment is not made within 45 days, the College reports the student portion overpayment to NSLDS. At the same time, the College will refer to Borrower Services. The College mails the student a letter which informs him or her how to contact Borrower Services in order to set up a payment agreement or make arrangements to pay the debt in full.

The College requires the student to repay the College the school portion of for all unearned funds returned by the College to the US Department of Education. The student has 90 days to repay these funds to the College. If the unearned funds are not repaid within the 90 days, the student's account will be turned over to the NC Department of Revenue for collection.

Verification Policy

Verification is the process of confirming the accuracy of student-reported data on the financial aid application. Only a portion of MTCC's student population will apply for federal/state financial aid. A percentage determined by the Department of Education (DOE) will be verified. All applications flagged by DOE are verified. MTCC will also request verification if there is conflicting information or a discrepancy and situation warrants investigation.

The following person(s) may be excluded from verification:

- Death of the student
- Student ineligible to receive Title IV aid due to a reason other than verification
- Student eligible to receive only unsubsidized loans (*MTCC does not participate in the Federal Student Loan Program*)
- Applicant verified by another school (letter from other school confirming verification process was completed is necessary)
- Both parents are mentally incapacitated (dependent student)
- Both parents or custodial parent are deceased (dependent student)
- Parents residing in country other than US and can't be contacted by normal means (dependent student)
- Parents can't be located because student does not have contact (dependent)
- Spouse has died or is mentally incapacitated (independent student)
- Spouse residing in country other than US and can't be contacted by normal means (independent student)
- Spouse can't be located because student does not have contact (independent student)
- Students have documents lost or destroyed due to natural disaster

Application/Verification Process:

When the student applies for federal/state financial aid via studentaid.gov, the option to link tax information directly from the Internal Revenue Service (IRS) is presented unless the student has divorced or separated during or after the tax year being used for the application. The following items can be directly imported from the IRS to the FAFSA:

- Filing status
- Adjusted gross income (AGI)
- Taxes paid
- Income earned from work
- Exemptions
- Information from appropriate schedules

** In addition, the following items are also imported if filing 1040

- Education credits
- IRA deductions
- Tax-exempt interest income
- Untaxed IRA distribution
- Untaxed pensions

There are three active verification tracking groups. Students selected for verification will be placed in one of these tracking groups by DOE.

V1 – Standard Verification Group

(Tax filers)

- Adjusted gross income
- US income tax paid
- Untaxed portions of IRA distributions
- Untaxed portions of untaxed pensions
- IRA deductions and payments
- Tax-exempt interest income
- Education credits
- Household size
- Number in college

(Non-tax filers)

- Income from work
- Household size
- Number in college

V4 – Custom Verification Group

*This group verifies identity/statement of educational purpose

V5 – Aggregate Verification Group

*This group verifies identity/statement of educational purpose in addition to all the items in V1 – Standard Verification Group

All verification groups will complete the appropriate form(s) and provide documentation (forms available in the MTCC Financial Aid Office) and via www.mcdowelltech.edu (under Financial Aid). Forms must be legible and signed by the applicant (independent) or applicant and parent (dependent).

The deadline for verification documentation for the 2023-2024 academic year is September 15, 2024 or 120 days after the last day of the student's enrollment, whichever is earlier. If all information is not received by the deadline, the student forfeits their rights to any aid that might have been eligible for during that academic year.

A student may be eligible for a late disbursement if all verification documentation is received after that time. To be considered for a late disbursement, the Department of Education must have processed a SAR or ISIR with an official EFC while the student was still enrolled.

Prior to starting the application process, students and parents (if necessary) are given the opportunity to create a Student Financial Aid (FSA) ID. This ID is used to log into the FAFSA form and can be used to sign the FAFSA electronically. The ID is also required if the student and/or parent wishes to attempt to use the IRS retrieval tool. The student and parent of dependent students are required to create and maintain a FSA ID. If either are unable to create an ID, a signature page can be printed from the FAFSA form and submitted via US mail.

If a student is selected for verification in groups V1 or V5 and is unable to use the IRS retrieval tool, a tax return transcript from the IRS will be requested from the student and he/she will provide it to the MTCC Financial Aid Office. The procedure for requesting a tax transcript is described on the MTCC Financial Aid website. If a student has requested and been unable to receive a tax transcript, an actual tax return can possibly be used. The tax return must be signed and presented with all W-2s.

Documentation of taxed/untaxed income and or filing status that is seen as conflicting will be requested by the MTCC Financial Aid Office. All independent students or parents of dependent students that claim no tax return has been filed for the year being reviewed, will be asked to request a "Verification of Non-Filing Status" form from the IRS. Instructions for requesting this form may be found on the Student/Parent Non-Tax Filer Form.

In addition, any student that is flagged with a 'C' code indicating a database mismatch will be asked to resolve the issue prior to aid being processed. Examples of circumstances warranting a 'C' code include:

- No citizenship verification
- Social security number/name discrepancy
- Defaulted student loan or one cancelled for disability purposes
- Unusual enrollment history

After all documents are presented to the MTCC Financial Aid Office, the student's ISIR is compared to what is received. Any conflicting data or items will be updated by the FA office and processed back through DOE to make the necessary corrections.

Students are initially notified of their verification status via their go.mcdowelltech.edu email address. The student is sent a letter via US Postal mail with information regarding the email account and how to access it. Students are asked to present all documents to the MTCC financial aid office. After all documents are received and any necessary changes are made, the student is awarded if eligible. The student is notified of eligibility and award amount via their MTCC WebAdvisor account.

Referrals to the Office of Inspector General of the Department of Education

If after the application for financial aid is reviewed, it appears that the applicant is purposefully engaged in fraud or other criminal misconduct in order to gain eligibility for Title IV, HEA program assistance or to change their amount of assistance, the MTCC financial aid office is required to and will make a referral to the Office of Inspector General as potential fraud.

Examples of this type of information could be but are not limited to:

- False claims of independent student status
- False claims of citizenship
- Use of false identities
- Forgery of signatures or certifications
- False statements of income

Additionally, any credible information that indicates an employee, third-party servicer or agent of the institution that serves in a position that administers Title IV or HEA assistance, may be engaged in fraud will be reported to the OIG.

The institution refers any fraudulent activity that is relevant to the eligibility and funding of MTCC and our students.

Types of Aid

I. Government Aid Programs

Pell Grant

The Federal Pell Grant Program provides the foundation on which the financial aid package is developed. Students begin the financial aid process by completing the Free Application for Federal Student Aid (FAFSA). From this application, an expected family contribution (EFC) is calculated to determine the family's contribution to the student's education. This figure is used by the Financial Aid Office to determine the amount of the Pell Grant award. Federal Pell Grant awards can range from \$750 to \$7,395 per academic year depending on enrollment status.

Supplemental Educational Opportunity Grant (SEOG)

This grant is awarded to students with exceptional financial need. Limited funds are available with priority given to students receiving Pell Grant funds with a low expected family contribution. Priority is given to students completing their FAFSA prior to March 15.

Federal Work-Study (FWS)

A limited number of part-time employment positions are available to eligible students on campus. The work-study program provides students with an additional means of contributing to their educational costs. When possible, students are placed in an area of work which matches their career interests and skills.

Vocational Rehabilitation

Students who have a substantial handicap to employment from a physical or emotional problem may be eligible for funds through the N.C. Division of Vocational Rehabilitation. Application should be made through the V.R. Office in the county of residence.

II. State Aid Programs

The North Carolina Scholarship

The NC Scholarship works with federal aid to provide a guaranteed amount of financial assistance with additional state funding provided to students with exceptional need.

Students enrolling at a North Carolina Community College with an Adjusted Gross Income (AGI) of \$75,000 or less

and an Expected Family Contribution (EFC) of \$7,500 or less, as reported on the FAFSA, are guaranteed at least \$2,800 from combined federal and state aid.

Consideration for funding is automatic once the FAFSA is filed. The FAFSA filing priority date is August 15 for North Carolina Community Colleges. Applicants completing the FAFSA after this date may be denied if insufficient funds are available.

North Carolina Longleaf Commitment Grant (NCLCG)

North Carolina residents that have completed the Free Application for Federal Student Aid to determine eligibility for Pell Grant may also be eligible to receive the NCLCG Grant.

Eligible students for the Longleaf Commitment student aid grant are as follows:

- Be a 2020, 2021, or 2022 NC high school graduate.**
- Be a North Carolina resident according to the NC Residency Determination Service.**
- Be a first-time college student (Career & College Promise (CCP) and Early/Middle College High School students are eligible).
- Enroll in a curriculum program.
- Enroll in at least 6 credit hours per semester.
- Have an Expected Family Contribution (EFC) from \$0-\$15,000 ("EFC" is based upon student's FAFSA determination).

Forgiveable Education Loans for Service (FELS)

This program is made possible through the North Carolina State Education Assistance Authority and allows students to obtain the degree they want and repay the loan funds by staying in North Carolina in areas with a critical need for more employees, such as nursing, teaching, allied health fields or medicine. Recipients of this loan sign a promissory note agreeing to work in North Carolina after graduation in an approved position for each academic year of funding received. Students should visit www.cfnc.org/FELS for details on requirements and the application process.

Golden LEAF Scholars Program--Two-Year Colleges

This scholarship is funded through a grant from the Golden LEAF Foundation, a non-profit organization hoping to help North Carolina's economy. Selection factors include the effects of the declining economy on students and their families. The scholars program provides up to \$750 per semester for curriculum students and \$250 per semester for occupational education students. Students may apply by completing a Golden LEAF scholarship application. These are available in the MTCC Financial Aid Office.

Less Than Half Time Grant

Funds for this grant are provided by the NC Department of Community Colleges. Students must be enrolled for less than six credit hours and fall within specific EFC (expected family contribution) limits to be eligible for these funds in Fall and/or Spring semesters. No additional application is necessary; eligibility is determined from the FAFSA.

Targeted Assistance Grant

Funds for this grant are provided by the NC Department of Community Colleges. Students must be enrolled in one of the following programs to be considered for this grant: Machining Technology, Industrial Systems or Electrical/Electronics. No additional application is necessary; eligibility is determined by the FAFSA.

WIOA

A possible source of educational assistance for unemployed and/or underemployed individuals is WIOA benefits. Interested individuals should contact the NC Works Career Center for more information and eligibility criteria.

III. Institutional Aid

The McDowell Technical Community College Foundation provides students with financial support to expand learning opportunities and remove barriers to enrollment. Scholarships are available to pay for tuition, fees, books, required course materials, testing, and emergency grants to students for critical needs. The Foundation is committed to ensuring MTCC students have the financial support they need to reach their educational goals.

Scholarship applications can be found online on the MTCC Foundation webpage as well at the MTCC Financial Aid webpage. Priority deadline is May 31 for the 2023-2024 school year.

V. Veterans Benefits

U.S. Department of Veterans Affairs Benefits

McDowell Technical Community College is approved by the North Carolina State Approving Agency for the enrollment

of persons eligible for education assistance benefits from the U.S. Department of Veterans Affairs (DVA). Entitled veterans, participants in the Montgomery G.I. Bill® contributory program, active duty military personnel in voluntary education programs, active members of the National Guard who are drilling, and eligible spouses and offspring who may be certified to the U.S. DVA Regional Office as enrolled and in pursuit of an approved program of education. This institution has been approved for one semester only of provisional admission. Due to late registration, some students may fail to have all admissions documentation (transcripts or test scores) and may be admitted as provisional students for one semester pending receipt of the required documentation. However, students who fail to submit all transcripts during the second semester will not be re-certified.

Dual Programs

McDowell Technical Community College is approved for Veterans' Affairs students to pursue dual programs simultaneously. Students desiring a second program must meet with the Veterans' Certifying Official and their advisor to complete a Dual Program Approval Form and follow the guidelines listed in the college catalog. Students must meet certain criteria to be certified for Veterans' Affairs benefits while seeking completion of dual programs. Dual programs must be related to a single career field.

DVA Standards of Progress, Attendance and Conduct

Public Law 93-508 requires that each educational institution approved for veterans to receive educational benefits (GI Bill®) must establish written policies that clearly state what is expected of the veteran in the areas of academic progress, class attendance and conduct. Many of these expectations are required of all students, veterans and non-veterans, and are covered in this Catalog and Student Handbook.

Further requirements include that any recipient of veteran's benefits: (1) who withdraws from all subjects undertaken will have his or her educational benefits terminated from the last date of attendance; (2) who drops any of his or her courses may have benefits reduced; and (3) must maintain a level of satisfactory academic progress. Students are considered to be making unsatisfactory progress if they have not achieved a level of progress consistent with their time in the program. Veterans who are making unsatisfactory progress will be terminated by the Veterans Certifying Official. When performance meets the level of satisfactory progress, the recipient may be recertified. Recipients of DVA benefits need to consult the Veteran's Certifying Official before enrolling in telecourses, Cooperative Education classes, Internet classes, or making course substitutions.

Veterans Pay Schedule

For accuracy, a veteran should contact the U.S. Department of Veterans Affairs Regional Office in Atlanta, GA, at 1-888-442-4551 for an assessment of benefits which they may receive. Benefits will vary according to many criteria. *A period of six to ten weeks should be allowed for receipt of the Veterans Administration subsistence check.*

For more information about programs available at this institution, contact the campus Veterans Certifying Official in the MTCC Financial Aid Office.

Services To Students

The Student Services Office at McDowell Technical Community College is responsible for various types of student assistance: admissions, advising, orientation, testing, supervision of and assistance in planning student activities, financial aid, placement of graduates, school publications and community-school relations.

Objectives

McDowell Technical Community College, operating under the “Open-Door” admissions policy of the North Carolina Department of Community Colleges, is committed to taking prospective students and placing them in a program of study commensurate with their interests and abilities through counseling, guidance and testing. As a result of this commitment, the Student Services Office must respond to the needs of a diverse student population. The ultimate objective is total service to the student and to the community. Specifically, the objectives can be broken down as follow:

1. To provide information to prospective students and the community on opportunities available at McDowell Technical Community College.
2. To provide a counseling and testing program to assist prospective students in selecting a suitable program of study.
3. To orient new students to the college environment.
4. To provide and assist in the development of a program of student activities.
5. To provide for the maintenance and utilization of student records.
6. To identify and utilize all community resources which can be used to the advantage of the student, school and community.

These objectives support the educational programs and the philosophy of McDowell Technical Community College so that each student can reach his/her fullest potential. The student is encouraged to seek the assistance available in the Office of Student Services.

Programs of Assistance

Orientation

At the beginning of each semester, new students must attend New Student Orientation (NSO) either online or face-to-face. Orientation helps acquaint students with basic ideas, procedures, student supports and learning resources, academic areas, administrative personnel and services of the college.

NSO is mandatory and students who do not attend face-to-face or online will receive a hold on their account, which will prevent future registration. Online NSO can be accessed online through the MTCC website.

Health Services

The College does not have a health clinic to provide hospitalization or emergency services. The physical location of the College campus is easily accessible to hospital facilities in both Marion and Morganton. In the event of an emergency, EMS ambulances are available on a 24-hour schedule; phone 911. First-aid supplies are available in all shop areas and in each campus building.

Serious Injury or Illness

In the event of **Serious Injury or Illness**, the following procedures should be followed:

1. Summon EMS ambulance service by calling 911.
2. Make the person as comfortable as possible WITHOUT MOVING HER/HIM UNTIL HELP ARRIVES.
3. As soon as possible, notify the Security Office at 828-442-1084, 828-652-0673, or the Receptionist/Switchboard Operator at 828-652-6021 extension 0.

***Note:** Additional information about Safety and Security is available on the college's website (www.mcdowelltech.edu) under Services > Safety and Security.

Any student enrolling in the College may complete a student medical (health) data form. This information may be used for the purpose of referral in the event of an emergency and to notify appropriate personnel of conditions which

may affect the student's enrollment in a particular program.

Health-e-Schools

MTCC is a part of Health-e-Schools. This is a program that provides medical care to clients in the place where they spend most of their time-school or work! Our staff can provide access to medical care to students/employees, without students/employees missing school or work. This program helps the student/employee stay healthy, decreases school/work absences, and reduces out-of-work, travel, and wait time. Telemedicine is available at MTCC every public school day and appointments can be arranged during non-core classes (call 828-659-0646). For more information about how we do this, please visit our website at www.myhealthschools.org

Virtual Bookstore

MTCC has books available through our virtual bookstore at:

<https://bncvirtual.com/mcdowelltech>

Students who need assistance or have questions may contact the bookstore, located in Building 14. Bookstore staff may also be reached by phone or email:

828-659-0442

bookstore@go.mcdowelltech.edu

Bookstore Hours

The Campus Bookstore is open Monday through Thursday, 9:00 am - 5:00 pm and Friday, 9:00 am - 1:00 pm. (The bookstore is closed on Fridays during the summer semester.)

Student Enrichment Center

The Student Enrichment Center provides a variety of testing and student support services. These include: placement testing, career assessments and personality inventories to explore student interests and aptitudes, career counseling services, and tutorial assistance services.

The Student Enrichment Center operates the MTCC Student Tutorial Program. Students interested in participating in the program as a tutor or those desiring tutorial assistance should contact the Center for further details.

The campus contact for job placement is also located in the Center.

All Student Enrichment Center services are free to the MTCC student. Walk-ins are accepted; however, appointments are encouraged to guarantee the student these services in a timely manner.

Placement Testing and RISE- Reinforced Instruction for Student Excellence

The Pre-College (Developmental) program uses the Reinforced Instruction for Student Excellence (RISE) model. The RISE model places students into one of three pathways based primarily on their high school GPA and replaces prerequisite remediation with co-requisite remediation.

A high school GPA is the first placement measure for RISE. High school graduation must be from a U.S. high school. **The only applicants who will be required to take a placement test are those who graduated from a foreign high school and fall outside the other RISE criteria, did not take Math 2 in high school, took the GED prior to 2014, or who earned an Adult High School diploma.**

RISE Placement

HS GPA 2.8+	Gateway math or English without co-requisite
HS GPA 2.2-2.799	Gateway math or English co-requisite
HS GPA <2.2	Transition Math Course and/or Transition English Course

College level placement into English and math courses (without co-requisites) can also be attained by the following methods:

- Submit official ASSET, Accuplacer or COMPASS scores taken within the last ten years from another college.
- Submit an official transcript showing completion of college level English or math at an accredited college with a grade of C or better.

- Submit official ACT and/or SAT scores for placement.

Contact the Student Enrichment Center if you have questions about placement and the RISE Placement Test at 659-0418.

Placement Testing Rules

- Must have an application on file with Student Services.
- Must make an appointment with the Student Enrichment Center. Discuss special needs or concerns related to testing at that time. Persons with disabilities may request special accommodations and need to do so when scheduling the testing appointment to allow adequate time for needed arrangements to be made. Official documentation verifying the disability and the need for special accommodations must be submitted prior to testing. Special accommodations include, but are not limited to, braille, large print materials and tests on audiotape.
- Must bring MTCC Student Identification Number and have a picture ID. Pencils and scrap paper will be provided.
- Placement test scores are considered current for ten years.

Reinforced Instruction for Student Excellence (RISE)

McDowell Technical Community College has implemented a Reinforced Instruction for Student Excellence (RISE) initiative to identify and assist students with academic weaknesses. A student whose criteria falls below proficiency levels determined by the RISE measures is required to enroll in the transition and/or co-requisite courses appropriate for the identified weakness.

Required transition courses are prerequisites for math and English gateway courses and must be taken before entering gateway courses. Co-requisite courses are taken at the same time as the gateway math or English courses.

The transition and co-requisite courses may also be taken by others, at the student's initiative, or on the recommendation of a faculty member (except for those receiving Veteran's Benefits).

Academic Resource Center (ARC) Lab

The Academic Resource Center (ARC) serves as a common computer lab for all students. It provides students free access to computers and the internet in order to fulfill technological requirements in their courses at MTCC. Students may bring their own laptops to the ARC where they will be able to find power outlets and access wireless internet.

The ARC also provides free tutoring in basic math and English topics during specified times each semester. Students do not need to set up an appointment to receive this free tutoring, but they do need to check on the times of availability each semester. Other resources available to students in the ARC Lab include math DVDs, textbook software, and remedial software that can enhance student learning.

Proctoring is available in the ARC Lab anytime during the hours of operation, when classes are in session. All proctored exams must be completed at least 30 minutes before closing time. There is a charge of \$25.00 per test for proctoring services for non-MTCC students. Proctoring fees may be paid in person in the Business Office. Fees must be paid prior to the testing appointment. Students must bring this receipt of payment to their scheduled proctoring appointment.

Career Planning and Development

Educational objectives generally are pursued by students for the purpose of preparing themselves for the world of work or for job mobility. The function of all personnel involved in the educational process is to provide ways and means to assist the student in career planning and individual development. Please contact the Student Enrichment Center for career assessments and exploration.

Job Placement

The College offers job placement assistance through the Student Enrichment Center and the NC Works Career Center. A job placement counselor is available for the purposes of referral to the NC Works Career Center/Ford Miller Employment and Training Center. Although employment cannot be guaranteed by McDowell Technical Community College, every effort is made to notify students of job opportunities and assist them in securing positions of employment. The NC Works Career Center/Ford Miller Employment and Training Center provides resume preparation, counseling, and assists students in securing employment. Up-to-date job openings are posted and available on-line through resources provided at the NC Works Career Center/Ford Miller Employment and Training Center. Short-term employability skills classes are available to those seeking employment.

Students interested in full or part-time jobs are asked to complete a NC Works Customer Profile and have a conference with NC Works staff.

Students are also encouraged to utilize the services of the North Carolina Division of Workforce Solutions located on Baldwin Avenue at NC Works Career Center/Ford Miller Employment and Training Center in Marion, NC for job placement assistance.

Campus Security

The Security office is located just inside the front entrance of the Administration Building. Members of the Security Staff are available to serve you with any crisis, emergency or security situation that may arise. They can be reached immediately by telephone at cell number 442-1084, or at the office line, 652-0673. Otherwise, dial “0” on our local land line. Please feel free to call Security staff for any security needs you may have. They are there to serve you.

Student-Oriented Policies & Procedures

Diversity and Non-Discrimination

Diversity

At McDowell Technical Community College, we believe when people feel a sense of belonging, they can be more creative, innovative, and successful. We are committed to demonstrating a welcoming and inclusive culture where everyone is respected and supported regardless of identities, experiences, or circumstances.

Non-Discrimination Policy

It is the policy of McDowell Technical Community College that no individual shall, on the basis of sex, age, religion, race, color, national/ethnic origin, disability or political affiliation, be excluded from participation in, be denied admission to or the benefits of, or be subjected to discrimination in his/her education program, as required by Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990 (ADA). Any student who feels he/she has been discriminated against should contact Breanna Wilson, Business Office and Human Resources Manager, MTCC, 54 College Drive, Marion, NC 28752 Phone (828)652-0618. In addition, he or she may consult with or write to the Office for Civil Rights, District of Columbia Office, U.S. Department of Education, 1100 Pennsylvania Avenue., NW, Room 316, P.O. Box 14620, Washington DC 20044-4620.(202)786-0500

Provisions for Persons With Disability

McDowell Technical Community College provides equal access to education for persons with disabilities in compliance with Section 504 of the Rehabilitation Act and Americans with Disabilities Act. It is the responsibility of the student to make his or her disability known and to request academic adjustments of modifications each semester. The Accessibility Services Coordinator advises and assists in securing academic adjustments, support services and other provisions for qualified students with disabilities. Request for modifications, adjustments or accommodations should be made 30 working days before events or activities and submitted to the Accessibility Services Coordinator. Every reasonable effort will be made to provide accommodation.

In order to establish the student's eligibility for services, documentation of disability is required of all students who request academic accommodations or modifications. Documentation should be submitted to the Disabilities Coordinator and may include results of medical or psychological tests or other professional evaluations that verify the existence of an ADA-recognized disability. Students with learning disabilities should provide a current psychological evaluation that states the specific learning disability and the functional limitation within the learning environment. All documentation and records will be maintained in a confidential manner as outlined in the Family Educational Rights and Privacy Act of 1974.

College procedures for application and admission apply to students with disabilities. For additional information, contact the Accessibility Services Coordinator at (828)-659-0489.

Student Grievance Procedure (BP 4.3 and CP 4.3.1 Grievance Policy & Procedure)

It is the policy of McDowell Technical Community College to provide all students with the means to seek resolution to any problem affecting their enrollment. The primary objective of a grievance procedure is to ensure that student rights are protected. Further, it is essential that the student be given adequate opportunity to bring valid complaints and problems to the attention of the College with the assurance that student's grievances will be handled fairly, rapidly, and in a non-threatening atmosphere.

A grievance is defined as the dissatisfaction that occurs when a student has reason to believe a condition or a situation, or an action affecting the individual is unjust, inequitable, and/or a hindrance to effective performance. A grievable action is an action that is in violation of written campus policies or procedures or constitutes arbitrary, capricious, or unequal application of written campus policies or procedures.

In implementing a grievance policy, the College emphasizes the importance of attempting to resolve any issues before utilizing the grievance policy. All students and faculty members, administrators, or staff members have an obligation to make every effort to resolve problems fairly and informally so that they do not become sources of grievances to be pursued formally through the grievance procedure. However, the College realizes that all problems cannot be corrected with an informal resolution. The procedure is not intended to initiate disciplinary action against a student or a member of the faculty, staff, or administration; or to alter college policy. It is important to note that all matters will be handled in a professional manner

and parties will be treated professionally and fairly with no retaliation before, during or after the grievance procedure.

Procedures

A formal complaint may be filed any time by students who believe that a personal right has been violated. The following procedure is established to provide prompt and equitable resolution as they relate to claims of discrimination based on age, sex, (including sexual harassment) religion, race, color, national/ethnic origin, disability or political affiliation, or have been excluded from participation in, be denied admission to or the benefits of, or be subjected to discrimination in his/her education program. (Because of the private and sensitive nature of certain incidents, an aggrieved student may choose a third party mediator to help resolve complaints on an informal basis.)

The following outlines the grievance procedure:

1. Students with concerns should first discuss their problem with the faculty or staff member(s) who are involved. (A third party may be present.) All parties should attempt to resolve the issue in discussion.
2. If the issue is not resolved, the student must talk with the faculty/staff member's immediate supervisor within ten working days, who will attempt to resolve the complaint.
3. If the grievance cannot be resolved within the department, students should submit a written grievance to the Chief Academic Officer within thirty working days after completion of step # two (2). The complaint should specify the time, place, and nature of the incident that resulted in the complaint. (Forms are available in the Student Services Office and on the MTCC website www.mcdowelltech.edu)
4. Copies of the complaint will be forwarded to the appropriate administrator of the area involved.
5. Within ten working days, the Chief Academic Officer will contact all parties involved (including third parties) and request a meeting.
6. If the situation cannot be resolved during the meeting in Step # 5, the Chief Academic Officer will establish the Grievance Committee within twenty working days. The student or employee may have persons appear on his/her behalf provided that a list of names is given to the Chairperson of the Grievance Committee five school days prior to the meeting. (The Committee with guidance from the Chair [who will receive appropriate training for the procedure] will investigate and evaluate all information provided. A period of ten days is allowed for this process.) The student or employee portion of the Grievance Committee meeting shall be taped to ensure that a full and accurate record of the information presented is available to the student or employee and committee members and to facilitate the writing of the minutes of the meeting. Copies of the tape may be made for the student at cost. The discussion following the student part of the meeting is considered a closed session.

The Grievance Committee shall consist of:

1. Chairperson (non-voting member).
 2. Student Services administrator. This person will serve as student advocate. (Non-voting member).
 3. Two faculty members, at least one being from the same department as the aggrieved student.
 4. Two students: the President of the SGA and one other student elected by the SGA.
 5. One administrator: appointed by the College President.
7. Five (5) voting members are required before a vote can be taken. The decision of the Grievance Committee shall be by majority vote. Within ten (10) school days, the Grievance Committee shall submit its findings of facts and recommendations to the Chief Academic Officer. This will serve as the final decision. The Chief Academic Officer will make the student aware (in writing) within ten (10) days the decision of the Grievance Committee.
 8. If the Grievant is not satisfied with the decision of the Grievance Committee, he/she may appeal the decision to the President. The appeal must be made to the President in writing within ten working days. The President will review all procedures and meet with the student.
 9. The President will render a decision within ten working days. In all cases, the President's decision shall serve as the final governing authority of the College.

Post-Secondary Education Complaints: Student Complaint Process

In compliance with state regulations and the rules promulgated by the U.S. Department of Education, the University of North Carolina is committed to implementing a student complaint process that is fair, timely, and effective. This policy establishes a process by which students can initiate complaints against a post-secondary institution offering programs in the State of North Carolina when all other forums at the institutional level have been exhausted. The University of North Carolina System Office, serving as the clearinghouse for complaints concerning post-secondary institutions that are authorized to operate in North Carolina, will act upon those complaints within its purview and forward all other complaints to

the appropriate agency.

If you have questions about this process, please email student complaints to studentcomplaints@northcarolina.edu.

Equal Opportunity/Affirmative Action Institution

McDowell Technical Community College is an Equal Opportunity/Affirmative Action Institution in compliance with all policies on non-discrimination. The College has an Affirmative Action Plan. The Affirmative Action Officer for McDowell Technical Community College is the VP for Finance and Administration. The contact number is (828) 652-0627.

Code of Student Conduct

McDowell Technical Community College strives to maintain a safe, nurturing, and orderly learning environment that supports students, faculty and staff. This includes providing a healthful and safe environment, protecting property and records, and supporting the laws of the community, state and nation. In order to maintain an appropriate learning environment, the College expects students to conduct themselves as mature, responsible adults.

The Code of Student Conduct applies throughout the academic year as well as before classes begin or after classes end for the semester, and during periods of time between actual enrollment. The Code of Student Conduct shall apply to a student's conduct even if the student withdraws from classes while a disciplinary matter is pending. When, in the judgment of College administration, the student's conduct disrupts or threatens to disrupt the College community, appropriate disciplinary action will be administered in accordance with *BP 4.5 and CP 4.5.1 Levels of Discipline and Appeal: Student*. Students have the right to due process when accused of a violation of the Code of Student Conduct. All matters related to alleged Title IX violation shall be referred to the college's Title IX Coordinator. For all matters regarding alleged discrimination and harassment, please refer to the Non-Discrimination Policy.

A student who is in possible violation of the Code of Student Conduct will be referred to the Dean of Students or designee. If the Dean of Students or designee determines the students' 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 business days, pending a due process hearing or Behavioral Intervention Team review under the BIT Team Policy.

Students who have been found responsible for 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 suspension of a student.

Jurisdiction of the Code of Student Conduct is in effect on College premises, in online classes conducted by the College, on property owned or leased by the College and at functions sponsored by or participated in by the College regardless of the locations. Violations of any federal, state, or local laws may lead to legal actions as well as College discipline. Violations of federal, state or local laws off campus may result in disciplinary action if the student's continued presence on campus constituted a threat to the safety and order of the campus. If a student is charged with a felony that may compromise the safety and order of campus, then the College has the right to suspend the student pending the outcome of the criminal charges. If the student is convicted, then the student may be limited in class location and course delivery options, and/or recommended for suspension or expulsion.

High School students who are dually enrolled at the College are also subject to the Code of Student Conduct. Students are expected to follow the behavior guidelines for their high school as well as the College. Therefore, high school students shall conduct themselves in accordance with the Code of Student Conduct of their school system as well as those rules and regulations set forth in the College Code of Student Conduct and published annually on the College website, in the Catalog, and Student Handbook.

Note: Refer to Individual Program handbook for potentially more stringent guidelines and policies.

Sexual Misconduct, Dating Violence, Domestic Violence and Stalking Policy

McDowell Technical Community College provides and is committed to maintaining programs, activities, and an

educational and work environment founded on civility and respect, where no one is unlawfully excluded from participation in, denied the benefits of, or subjected to discrimination in any College program or activity on the basis of sex.

Sexual Misconduct, dating violence, domestic violence, and stalking are forms of sex discrimination that may deny or limit an individual's ability to participate in or benefit from College programs or activities and thus are inconsistent with the values and standards of the College community; incompatible with the safe, healthy environment that the College community expects and deserves; and will not be tolerated.

It is the policy of the College to provide educational, preventive, and training programs regarding sexual misconduct, dating violence, domestic violence, and stalking; encourage reporting of these behaviors; take appropriate action to prevent incidents from denying or limiting an individual's ability to participate in or benefit from the College's programs; make available timely services for those who have been affected; and provide prompt and equitable methods of investigation and resolution to stop discrimination, remedy any harm, and prevent its recurrence.

The College is committed to fostering a community that promotes timely and fair resolution of sexual misconduct, dating violence, domestic violence, and stalking allegations. To that end, the College has appointed a Title IX Coordinator to oversee the investigation and resolution of such allegations and has adopted investigation and resolution procedures. Any allegation of sexual misconduct, dating violence, domestic violence, or stalking involving any member of the College community, occurring on College property, and/or occurring off of College property (if the conduct giving rise to the allegation is related to the College's programs or activities) will be investigated by the College's Title IX Coordinator pursuant to the appropriate procedures.

The Title IX Coordinator is Breanna Wilson, Business Office and Human Resource Manager, who can be reached at 828-652-0618.

Policy on Publications- Classroom use of equipment/materials/supplies

McDowell Technical Community College strives to maintain up-to-date computers, printers, supplies and materials to be utilized by instructors and students. MTCC's equipment, including computers, printers, laboratory equipment, shop equipment, and supplies and materials are to be used for curriculum-coursework projects only. Any equipment/materials/supplies utilized by students or staff for personal use or monetary gain are prohibited.

Any work produced must have the approval of the instructor and/or administration to be displayed within any area on campus.

Any student observed not following the above regulations may be subject to suspension or dismissal from the College for the semester or longer.

Dress Code Policy for Students

The following expectations for student dress have been established and approved by the McDowell Technical Community College Administration and the McDowell Technical Community College Board of Trustees.

The following dress code shall be observed by all McDowell Technical Community College students:

1. Any clothing or accessory that is deemed offensive causing a distraction and hampering the learning environment is prohibited.
2. Clothing and accessories must be appropriate to the classroom/lab setting to provide a safe learning environment.
3. Footwear is required and must be safe and appropriate for classroom/lab activities.
4. Jewelry and accessories that are safety hazards or could be used as weapons are prohibited.

The President, Chief Academic Officer, and Deans may allow exceptions to the dress code only on special occasions, such as Student Government activities. Further dress requirements may be prescribed by the above persons for certain classes, such as physical education, vocational, and health science classes.

Violations of the dress code procedures and regulations shall result in disciplinary action as follows:

1st violation: Verbal warning by instructor. Instructor will document the offense and forward a referral to the appropriate Dean and Chief Academic Officer for the record.

2nd violation: After speaking with the student and the situation cannot be resolved, the instructor will present an official letter stating concerns and suggested actions to the appropriate Dean, the Chief Academic Officer and the President.

3rd violation: Administration will investigate the situation. Depending on the results of the investigation, the student may be subject to suspension and/or dismissal from the college for the duration of the semester or longer.

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

Academic Dishonesty:

Academic Dishonesty includes, but is not limited to, 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; having someone else take one's exam and submitting it as their own, or using a commercial online learning platform to produce work and then submitting it as your own. Academic dishonesty includes any student who has someone else use an account and password for the purpose of submitting work as one's own.

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. Submission of previously used work as an original work on subsequent assignments or in multiple courses is not acceptable unless the resubmitted work is substantially different and appropriately cited as previous work.

Cheating: Using Notes or other material on an exam or classwork without permission from the class instructor; receiving information from another student during an exam; obtaining a copy of an exam or questions from an exam prior to taking the exam; submitting someone else's work as one's own; submitting written work, other artistic work, or assignment that was created or generated, in whole or in part, by an artificial intelligence tool or technology, platform, or software as one's own work; or having someone take one's exam and submitting it as his/her own.

Aiding Acts of Academic Dishonesty: Providing information to another student with the awareness that the student intends to use it for deceptive purposes. Students are prohibited from sharing, distributing, uploading, or downloading course materials, including outlines, teaching materials, labs, videos, lectures, tests, exams, or other course material including note sharing or commercial study prep services without the permission of the instructor.

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. Possession, use or distribution of any substance is prohibited, except as expressly permitted by law. Any influence which may be attributed to the use of a substance shall not in any way limit the responsibility of the individual or the consequences of their actions.

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 in cases of a certified service animal.

Assault: Students may not assault or threaten to assault another person for any reason whatsoever.

Behavioral Intervention: The College is committed to providing a safe learning and working environment. Mental or physical abuse (hazing) of any person on college premises, or at College sponsored or supervised functions; conduct which threatens or endangers the health or safety of any such persons. As such, the College utilizes a behavioral intervention team approach to assess and 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 by the Behavioral Intervention Team. If the potential 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 Behavioral Intervention team assessment.

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 their job."

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.

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.

Damage to Property: Students may not damage property of the College or of any other person working at or attending the College. Theft from, misuse of or damage to College property; theft of or damage to property of a member of the College community or a campus visitor, whether on College premises or at a College function. Unauthorized entry upon the property of the College, including entry after closing hours, unauthorized use of a key or entry into a restricted area is forbidden. Occupation or seizure in any manner of College property, a College facility or any portion thereof for a use inconsistent with prescribed, customary or authorized use; preventing, obstructing or substantially interfering with the use of a facility or a portion thereof by those persons to whom the space is assigned.

Demonstration: Participating in or conducting an assembly, demonstration or gathering in a manner which threatens or causes injury to persons or property; which interferes with free access of College facilities which is harmful, obstructive or disruptive to the educational process or institutional functions of the College or remaining at the scene of such an assembly after being asked to leave by a representative of the College.

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. Lewd or indecent conduct, including public physical and/or verbal actions and distribution of obscene or libelous written materials.

Disrespect: Students are expected to treat all College employees with respect and courtesy, particularly when and if disagreements arise.

Disruption: Students may not disrupt the normal activities of the College by physically or verbally interfering with instruction, meetings, traffic, or scheduled administrative functions. Intentional obstruction or disruption of teaching, research, administration, disciplinary proceedings or other College activities, including public service functions and other duly authorized activities on College premises. Setting off a fire alarm or using or tampering with any fire-safety equipment, except with reasonable belief in the need for such an alarm or equipment use.

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. Possession, use or distribution of any substance is prohibited, except as expressly permitted by law. Any influence which may be attributed to the use of a substance shall not in any way limit the responsibility of the individual or the consequences of their actions. This is in violation of the laws of the state of North Carolina of the United States.

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.

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. Willfully representing the College or a student organization without the group's permission or representing improperly the identity of any other member of the campus community. Forgery, alteration or misuse of College documents, records or instruments of identification with intent to deceive.

Gambling: Students may not gamble on campus or at any College affiliated activities or events.

Internet and Campus Network Acceptable Use: The College has an extensive policy 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. Students may not share their account and password nor may they access another student's account.

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.

Public Laws: Violations of any federal, state or local laws occurring while on campus may lead to legal actions as well as College 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.

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 figures 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.

Skate Boards, Hoverboards, and Roller Skates: Skate boards, hoverboards, and roller skates are not permitted to be used on campus outside College sanctioned events

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.

Threats: Students may not engage in any behavior that constitutes a clear and present danger to the physical and/or emotional well-being of the student and/or other students, faculty and staff.

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.

Vaping, E-cigarettes and Tobacco: Students may not use vaporizing devices, use e-cigarettes, or tobacco of any form, on campus or at any College-affiliated activity, sites, or events (*BP 1.8 and CP 1.8.1 Tobacco Free Facilities*)

Unauthorized Access to Records: Students may not access, view, copy or change official college records without official authorization. (*BP 4.16 and CP 4.16.1 Student Records and Confidentiality*)

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 breach 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 a MTCC social web site or blog will be deleted immediately and may result in having access to the site blocked permanently. (*BP 1.18 and CP 1.18.1 Social Media Guidelines and Procedures*)

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.

Levels of Discipline and Appeal

(BP 4.5 and CP 4.5.1 Levels of Discipline and Appeal: Student)

The following disciplinary actions are authorized for use by faculty and administrators of the College:

1. Oral warning
2. Written warning
3. Restriction, in writing, specifying the deprivation of privilege or other terms of restriction
4. Disciplinary probation, the conditions of which are expressed in writing, with an acknowledgement of notice signed by the individual placed on probation.
5. Oral suspension and immediate exclusion from specific institutional facilities or from all institutional facilities shall not exceed three school days unless superseded by suspension with written notice stating cause.
6. Suspension with written notice stating cause and specifying any conditions or terms of the suspension. Suspension with written notice shall be exercised only by the President, or in his absence, by his designated representative. The length of suspension will be identified in any written notice provided to the student.

Expulsion or dismissal for cause. This disciplinary action shall be taken only with approval of the Board of Trustees by formal resolution of motion adopted. Prior thereto, the individual shall be in a status of suspension with written notice stating cause. The Board of Trustees shall notify the individual, who shall be offered a full and fair hearing before the Board of Trustees or an impartial panel constituting a quorum of the Board, and shall have the right to be represented by counsel for defense, to bring witnesses for his defense, to confront, examine and cross-examine the witnesses against him, and to be provided at least five days before such hearing with a detailed statement of the charges against him and copies of document which may be presented as evidence against him. A record of hearing proceedings shall be kept.

Student Records: Confidentiality and Release

(BP 4.16 and CP 4.16.1 Student Records: Confidentiality & Release)

McDowell Technical Community College recognizes the importance of exercising responsibility in the maintenance and security of all student records. In order to meet that responsibility and the requirements of the Family Educational Rights and Privacy Act of 1974 (FERPA), as enacted by Congress, the College makes the following information known:

- I. Types of educational records and information which directly relate to students and which are maintained by the College, such as:
 - A. Permanent Student Files: Transcripts of work at other institutions, health forms or records, recommendation letters, placement test profiles, application and residency forms.
 - B. Transcripts: Academic record of all courses taken while enrolled at the College.
 - C. Student Financial Aid Records.
- II. The official responsible for the maintenance of each type of record, the persons who have access to those records and the purpose for which they have access:
 - A. The Director of Students Services & Registrar is the individual responsible for the maintenance of student files and transcripts.
 - B. The permanent clerical staff in the Student Services Office have access to the files for maintenance purposes.
 - C. The Student Services counselors have access to the files for the purpose of academic advisement
 - D. Other authorized College personnel have access whenever the nature of their responsibility requires access to student records or information contained therein.
 - E. Only Financial Aid Staff may access student financial aid records.
- III. The policy of the College for reviewing, maintaining, transcribing and expunging records:
 - A. As a matter of policy, the institution destroys all student records except the official transcript five (5) years after the student leaves the College.
 - B. Parents and legal guardians of independent students 18 years of age or older do not have the right to view student records, grades, test scores, etc. unless written consent of the student is received. Parents of dependent students as defined in section 152 of the Internal Revenue Code of 1954 may review student records without the written consent of the student.
 - C. Requests for student transcripts will be honored for students with no outstanding debt to the College.
 - D. Student's records and/or official transcripts will be forwarded only upon the written request of the student.

- E. Whenever it is requested that grades or records of students be released to faculty or to any agency, written permission must be obtained from the student except as outlined in II preceding. Forms are available in the Student Services Office for this purpose.
 - F. Unless otherwise requested by the student, instructors may post final exam and end of course grades provided a numerical code is used.
- IV. The procedures established by the College providing access to student records:
- A. Upon receipt of a written request from the student, the Director of Student Services & Registrar shall within 45 days:
 - 1. Allow the student to inspect and review the permanent file and transcript.
 - 2. Provide the student with copies of the material, if the student so desires.
 - 3. Interpret the records to the student.
 - 4. Allow the student to challenge, in writing, the content of the files. Upon receipt of the challenge, the Chief Academic Officer shall conduct a hearing at which time any materials found to be inappropriate or misleading will be corrected. Students shall also have the opportunity to insert into their files any written explanations they deem appropriate.
 - B. McDowell Technical Community College considers the following "Directory Information," and will release such information unless the student notifies the Director of Student Services & Registrar in writing during the first three days of class each semester:
 - 1. Name.
 - 2. Program of Study.
 - 3. Dates of attendance.
 - 4. Degrees and awards received.

Student Activities

Student Government Association

On February 5, 1981, the Board of Trustees of McDowell Technical Community College approved granting the existing Student Advisory Council full status as a Student Government Association. The duties and responsibilities of the SGA are to serve in an advisory capacity to the President, Administration and Faculty on matters pertaining to student interest and welfare. Participation in SGA is an important way for students to have input into decision-making at the college. The MTCC Student Government Association actively participates in and supports the state student government organization known as N4CSGA. The academic, educational, career and social needs and concerns of the students at MTCC are addressed and given due consideration through this association both at the local level and state level. The president of the SGA serves as an ex-officio member of the Board of Trustees of MTCC.

Any curriculum student who is attending at least half-time and has at least a 2.5 GPA is eligible to be a voting member of the SGA. Non-SGA members who wish to have input into college decisions or address issues which are of concern to themselves or others should contact an SGA member or the SGA Advisor to express those concerns. To request a time to speak before members of the Student Government Association, a student should contact the SGA advisor or an SGA officer to schedule time on the SGA meeting agenda. The SGA advisor can provide additional information about how to become an SGA member, more complete information about SGA activities, or a list of SGA members and officers. The staff member from Student Services who is designated as SGA advisor acts only to guide and represent staff and administrative viewpoints.

The Student Government Association sponsors various events, including Spring Fling and Fall Festival. All curriculum students are invited to participate free of charge; these activities are paid for through student activity fees at the beginning of each semester.

Occasionally, the Student Government Association will sponsor dances or other events. Announcements of these events will be posted or presented in class.

Students who wish to form a new club or organization on campus must seek official recognition through the Student Government Association.

Phi Theta Kappa National Honor Society-Beta Zeta Lambda Chapter

A chapter of the Phi Theta Kappa Honor Society was organized at McDowell Tech in 1998. The purpose of Phi Theta Kappa is to recognize and encourage scholarship among associate degree students. To achieve this purpose, Phi Theta Kappa provides opportunities for the development of leadership and service, for an intellectual climate to exchange ideas and ideals, for lively fellowship for scholars, and for stimulation of interest in continuing academic excellence. The Society is recognized by the American Association of Community Colleges as the official general honor society for two-year colleges.

Once yearly, the Beta Zeta Lambda chapter may extend an invitation to MTCC students who have been recommended by their advisors and have completed at least 12 credit hours of course work required for an associate degree and who have a GPA of 3.5 or higher.

National Technical Honor Society

McDowell Technical Community College faculty and staff organized a chapter of the National Technical Honor Society during the 2000-2001 academic year. NTHS, as it is abbreviated, began in 1984 to reward excellence in workforce education. It is an internationally recognized and proven program with over 1,500 member schools and colleges. Student membership in NTHS is available to those who seek to uphold critical workplace values and high levels of achievement. Once yearly, NTHS may extend an invitation to MTCC students who have completed at least 9 credit hours of course work required for their program of study, have achieved a GPA of at least 3.25, and have been recommended by their faculty advisor.

Student Publications

McDowell Technical Community College recognizes the value of providing opportunities for students and faculty to engage in journalistic endeavors. Under the auspices of the MTCC administration and Student Government Association, manuals, newspapers and other periodicals may be published as sufficient student interest develops.

Academic Excellence Award

McDowell Technical Community College participates with the North Carolina Community College System in selecting an Academic Excellence Award recipient. Each college is asked to select one recipient. The following are recommended criteria for student selection, consistent with Phi Theta Kappa Honor Society criteria:

- Must be currently enrolled.
- Must have completed at least 12 semester hours in an associate degree program .
- Must have a cumulative grade point average of not less than 3.25.

North Carolina Community College Student Leadership Institute

McDowell Technical Community College participates in Student Leadership Institute. Outstanding students are nominated by faculty/staff members.

Kim Ledbetter Food Pantry

Hours: Monday-Thursday, 9 am to 4 pm; and Friday, 9 am to 1 pm.

Student ID required.

For more information, contact 828-652-0622 or 828-659-0444.

Continuing Education and Workforce Development

McDowell Technical Community College, through the Department of Continuing Education, offers life-long learning opportunities to any adult, regardless of his/her educational background. A wide variety of programs are offered to provide opportunities for individuals to develop to their fullest potential whatever vocational, intellectual or cultural talents they wish.

Courses are designed to provide educational opportunities to prepare individuals for entry into an occupation, to retrain or upgrade the skills of those who are already employed, or to provide cultural and general interest courses for self-improvement. These non-curriculum classes may vary in length.

Continuing Education courses may be organized on or off campus, day or night, based upon the interest shown by the community, the availability of competent instructors, and the limitations of available equipment, space, and funds.

Admission Requirements

In general, all Continuing Education courses are open for enrollment to persons 16 years of age or older. However, because some specialty and advanced courses may be more difficult and require a greater degree of preparation, potential enrollees should be aware of the nature of the course requirements to determine their possible success in those courses. In certain specialized courses, ie:

- Advanced Technology Training
- Apprenticeship Training
- Fire Services Training
- Law Enforcement Training
- Management Development Training
- New & Expanding Industrial Training

potential students must be employed by or recommended by one of the requesting training agencies.

Course Descriptions/Schedules

Specific course descriptions are provided in course schedules or may be furnished upon request. A course schedule is published each semester. Courses are displayed via McDowell Tech's website and courses may be advertised in local newspapers or on local radio stations.

Registration and Fees

Individuals who wish to register for Continuing Education courses can register online at www.mcdowelltech.edu or in person at McDowell Technical Community College. Registration fees for occupational, practical skills, vocational, and academic courses range from \$70-\$180.00 per course, depending upon the course length. Self-supporting class fees will vary depending upon the course. Registration fees for community service classes range from \$15-\$180.00 per course, depending on course length.

Registration fees for Continuing Education courses are set by the N.C. Legislature, and are subject to change. Fees are non-refundable, except when the class fails to materialize. An extra charge may be necessary in some courses for books, materials, and class supplies. Books and supplies may be purchased in the College Bookstore.

Class Locations

A number of Continuing Education classes are held on campus. Classes are conducted throughout McDowell County wherever a suitable meeting place can be arranged. Classes are organized in any community whenever a sufficient number of prospective class members indicate an interest.

Attendance

Typically, a minimum enrollment of 8 persons is needed to conduct a class. Students are expected to attend class regularly. Insufficient enrollment may result in cancellation of the class.

Certificates

College credit is not granted for completion of courses in Continuing Education. However, certificates are awarded to students who successfully complete course requirements in classes which carry CEU credits. Licenses, diplomas, or other forms of recognition are awarded by certain agencies outside the College upon successful completion of specially designed courses. Certificates will not be released to students who have any outstanding debts to the college.

Continuing Education Units (CEU)

The Continuing Education Department will award Continuing Education Units (CEU's) for the successful completion of appropriate courses. The CEU was designed to recognize and record individual and institutional participation in non-traditional studies and special activities. The CEU is a recognized recording method for substantive non-credit learning experiences. A CEU is defined as "10 hours of participation in an organized Continuing Education experience under responsible sponsorship and qualified instruction or direction."

Programs Offered in Continuing Education and Workforce Development

General Adult and Community Services

The College is always concerned with identifying community potentials and community needs, drawing together resources at the College and other agencies to create new educational opportunities. Programs afford the opportunity for individuals to gain personal satisfaction through self-advancement. This includes opportunities to grow intellectually, to develop creative skills or talent, to learn hobby or leisure time activities, and to gain civic and cultural awareness. The general types of programs offered are:

Academic Courses	Consumer Education
Personal Business Education	Health and Safety Education
Citizenship Development Courses	Language Arts Education
Homemaking Education	Creative Arts Education
Family Life Programs	Music/Dance Education

Occupational and Continuing Education Programs

The college offers a number of Occupational and Continuing Education Services, including Teleconference Workshops, Computer Training, and a variety of specialized programs designed to enhance an individual's employability, to help him or her learn a new career, to establish a pattern of growth and stability in business and industry, and to help individuals stay abreast of trends in their chosen field. These programs may be subdivided as follows:

Small Business Center

McDowell Technical Community College's Small Business Center (SBC) began operations on September 6, 1988. The center was established to provide McDowell County with its first comprehensive small business development and assistance program.

The mission of the SBC is to train, counsel, develop and provide needed services for small businesses and their owners. As part of its provision of services, the SBC will attempt:

- To operate as an information service on small business issues and concerns.
- To coordinate the referral of small business owners/managers to acquire legal sources for in-depth assistance, counseling and financial assistance.
- To assist in the preparation of business plans, loan packages and research projects related to small business growth and operation.
- To provide limited tax and accounting services for sole proprietorship and partnership businesses.
- To seek out information and assist in loan package preparation involving Federal and State financing programs for small business owners.
- To deliver one-on-one business counseling.
- To assist small business owners with marketing and management problems.
- To offer seminars/workshops on timely topics of interest to the small business owner.
- To offer a resource library of books and videos to be checked out by clients at no charge.

Customized Training Program

The Customized Training Program supports the economic efforts of the State by providing education and training opportunities for eligible businesses and industries. Amended in 2008, this program combines the New and Expanding Industry Training Program and the Customized Industry Training Program to more effectively respond to business and industry. The Customized Industry Training Program also includes the former Focused Industry Training Program and shall offer programs and training services to assist new and existing business and industry to remain productive, profitable, and within the State.

The purpose of the Customized Training Program is to provide customized training assistance in support of full-time production and direct customer service positions created in the State of North Carolina, thereby enhancing the growth potential of companies located in the state while simultaneously preparing North Carolina's workforce with the skills essential to successful employment in emerging industries.

Occupational Industry Training

McDowell Technical Community College conducts in-plant courses to assist manufacturing, service and/or governmental organizations with in-service training of their employees. In-plant training is defined as an occupational extension course that meets the following conditions:

- 1) Training shall occur in the facilities or at the sites in which the organization normally operates.
- 2) Enrollment shall be limited to the employees of the organization in which the training occurs; trainees may be newly-hired employees who need entry level skills or existing employees who, due to documented changes in job content, need up-grading or retraining.
- 3) Training may partially be conducted at the employee's assigned work station during normal working hours.
- 4) Training shall be directly related to job skills.

Examples of types of training offered to industry include: Statistical Process Control, Total Quality Management, Industrial Sewing, Weaving, Mold Line Training, Forklift Licensure, Blueprint Reading, Measuring Instruments, Metric System, Mathematics, Hydraulics and Pneumatics, Maintenance Mechanics, Industrial Safety, Fire Brigade Training, Upholstery, Technical Writing, Communication Skills, Furniture Making, Furniture Framing, Fixer Training, etc.

Companies officials who desire this type of training for their employees should contact MTCC for more information.

Management Development Training

MTCC offers several different training options concerning Management Development. The college has certified instructors available in areas such as: McGraw-Hill Supervision Training, Zenger Miller Management Training, Deming Quality Control Training and the latest innovations in Total Quality Management.

Emergency Services Training

Fire Service Training

MTCC provides a wide range of fire training opportunities to meet the continuing education training needs of area firefighters. The College offers all course and training requirements to obtain Firefighter Certification, Instructor Certification, Hazardous Material Awareness Level and Hazardous Material Operational Level. The College also holds an Annual Fire, Rescue and EMS College. In total, the College offers over 150 courses annually in virtually every area of Fire Training.

Rescue Training

MTCC provides a wide range of training opportunities to meet the continuing education training requirements of Rescue Personnel. The college offers Technical Rescue (TR) Certification for area rescue personnel. The Annual Fire and Rescue College also provides courses in areas such as Vehicle Extrication, Search Procedures, Man-Tracking, Hazardous Materials, etc.

Emergency Medical Services Training

MTCC provides a wide range of training opportunities to meet the needs of area Emergency Medical Personnel. The college provides continuing education training as well as inservice training opportunities weekly to meet local need. Advanced training opportunities are also offered including: Basic Cardiac Life Support, Advanced Cardiac Life Support, Pediatric Advanced Life Support, and Vehicle Operator Training. The College offers the following levels of Emergency Services Training: EMT Basic, Advanced EMT and Paramedic. In addition to these programs, the college offers over 100 courses annually in the areas of CPR Certification, First Aid Certification, CPR Recertification and Communicable Disease Training to help local government and industry leaders meet OSHA requirements.

Law Enforcement Training

MTCC provides a number of training opportunities to local Law Enforcement personnel. Training classes are provided to city, county and Department of Corrections officers to meet continuing education needs. The college currently offers training opportunities in the following areas: Firearms Recertification, Breathalyzer Training, Unarmed Self-Defense Training, Basic Law Enforcement Training (see Curriculum Program description) and Specialized Training.

College and Career Readiness (CCR) Programs

College and Career Readiness programs are provided for students That are pre-college and may need basic education skills in writing, reading, math, computer literacy, and communication. Students who receive these services include low-skilled adults, individuals with disabilities, youth, justice-involved individuals, and English language acquisition students. Goals may include completing adult high school, or obtaining a high school diploma or its recognized equivalent, and/or earning employment related credentials necessary for post-secondary education or employment success. Coursework is based on The NCCCS College and Career Readiness Standards for Adult Education by the Office of Career, Technical, and Adult Education (OCTAE).

Transitions programs and services using adult education career pathways and other platforms are also provided, and are aligned with adult education content standards, postsecondary education completion goals, college entry readiness, life skills, and employment instruction and training. They include academic instruction, non-academic services, and support for students to ensure student success and transition to postsecondary career and employment options. Transitions programs may also include integrating career awareness, bridge instruction, integrated education training, transitions academies, and computer skills. Current career occupation pathways, based on projected Region C Workforce Development employment trends, include: Advanced Manufacturing, Health Sciences, and other pathways such as, Nursing Assistant, Early Childhood Education, Computer Information Technology, Welding Technology; and others.

A student may register at any scheduled orientation held at NCWorks, Marion throughout the semester and attend the class that is most convenient to their schedule. Classes are offered year-round. CCR classes are open to any adults age 18 or over who can benefit from class content, regardless of status. Students as young as 16 who are not enrolled in a public, private or home school may also enroll with notarized documentation from parents and public/private/home school officials.

All classes are fee-waived and texts are provided for in-class use in the following CCR programs:

Adult Basic Education (ABE)

Adult Basic Education is a program of instruction designed for adults who function below the high school level. Many of these adults have intellectual disabilities or similar barriers to independence. These classes work to assist adult learners with improving their academic, workplace, and independent living skills. Instruction is offered in reading, writing, math, English, science and career exploration with a focus on college and career readiness skills.

Adult Secondary Education (ASE)

Adult Secondary Education is a program of instruction (9.0 grade level and above or the equivalent) designed to prepare adults for further education or transition toward skill obtainment and employment. Adult Secondary Education includes the Adult High School (AHS) Diploma program and the High School Equivalency (HSE) Diploma program.

Adult High School (AHS)

The Adult High School program is intended to assist adults in earning the remaining credits they need to receive a high school diploma. The Adult High School Diploma program consists of classroom instruction, learning laboratory courses, distance education, or a combination of instructional methods which deliver the course objectives required to earn an Adult High School Diploma. The AHS Diploma Program is offered cooperatively with the local public school system to help adults earn an Adult High School Diploma. Diplomas are issued cooperatively by the community college and the local public school system. Official transcripts are maintained and issued by MTCC.

Required Credits - Colleges must offer at least the minimum number of credits required for graduation by the North Carolina Department of Public Instruction. Link- <http://www.dpi.state.nc.us/docs/curriculum/home/graduation-requirements>. Electives are selected from a variety of program offerings and structured so that students develop a range of skills which qualify them to succeed in the labor market or to enter technical, vocational, or college transfer programs. There is no cost to students for courses. However, a minimal graduation fee may be required.

High School Equivalency (HSE)

The High School Equivalency Diploma program offers instruction to assist learners in preparing to successfully pass a designated high school equivalency test. This test is designed to document knowledge and skills equivalent to that of a graduating high school senior. Students who successfully complete one of the approved test batteries earn the North Carolina High School Equivalency Diploma, allowing them to enter college, pursue further training or obtain employment.

Basic Skills Plus

Basic Skills Plus (BSP) is a program within CCR that offers transition and career pathway support to students preparing for entry into employment and post-secondary education programs. BSP students work to earn entry level employment and occupational credentials.

To be eligible for BSP, students **must be** co-enrolled in curriculum or workforce continuing education while earning their adult high school diploma. The high school diploma may be obtained in Adult High School (AHS) or High School Equivalency (HSE) classes.

Tuition for the curriculum or workforce continuing education classes **may be waived** for eligible students. Basic Skills Plus students may earn up to 96 hours in workforce continuing education program(s) or 18 hours in curriculum program(s) while part of BSP. Eligible students must apply for the Basic Skills Plus program and be approved by the Director of CCR.

English Language Acquisition (ELA)

English Language Acquisition classes are designed for students to improve their English speaking, reading and writing skills, as well as everyday life skills. Students will have an opportunity to practice basic conversation, improve interpersonal skills, and become a more involved member of the community. In addition, citizenship classes are available upon request.

Integrated English literacy and Civics Education (IEL/CE)

Integrated English Literacy and Civics Education are services provided to adults whose first language is not English, including professionals with degrees and credentials in their native countries, to enable them to achieve competency in the English language and acquire the basic and more advanced skills needed to function effectively as parents, workers, and citizens in the United States. Services include instruction in literacy, math, and English language acquisition and instruction on the rights and responsibilities of citizenship and civic participation, and may include workforce training. Students may register at any ELA class.

All classes are offered at a variety of times and locations. For more information or to sign-up, contact College and Career Readiness at 828-659-6001, ext. 137.

Human Resources Development (HRD)

The purpose of the Human Resources Development program is to educate and train individuals for success in the workplace. HRD courses provide skills training and assistance for adults who are trying to find employment, get back into the workforce or working to find their place in today's job market. The HRD program provides employability skills training (and more) and focuses on the unemployed and underemployed but is not limited to this group of people. These groups of people may include the following: unemployed insurance claimants, NCWorks customers, public assistance recipients, dislocated workers, out-of-school youth, justice-involved individuals, probationers, and individuals in career/job transition.

All classes in the HRD program are offered at no cost to unemployed individuals seeking employment and underemployed individuals who are working and meet special income guidelines. For individuals not in either of the categories, occupational extension fees will apply.

Classes are offered at the NCWorks Career Center, and are scheduled on a continuous basis throughout the year to meet the needs of the students who enroll. For more information, call the HRD office at 659-6001, ext. 140.

HRD Basic Technology Literacy

Make the transition into technology training easy by gaining an awareness of the role of technology in the workplace. Develop basic computer use skills, compile employment-related documents, research careers, and understand the impact of digital literacy and social networking on employment.

HRD BEST (Better Employability Skills thru Training)

Gain valuable information and skills that will make you a valuable employee. These skills will be transferrable to any workplace. Topics such as teamwork, employer expectations, communication skills and others will be covered. The course is a four-week course. Each week is unique so the student may start at the beginning of each week and after all four weeks are

completed a BEST certificate will be awarded. (Note: This is a unique program to MTCC.)

HRD Career Planning and Assessment

Explore your natural skills, search for the ideal career, and get in touch with the resources to reach your goals. Learn the career pathways with high projected employment needs in our workforce area.

HRD Career Readiness Certificate (CRC) Prep

Earn a North Carolina Career Readiness Certificate based on the ACT WorkKeys system. It is a portable credential recognized nationally, that shows employers your skill level in Applied Math, Workplace Documents, and Graphic Literacy. Prove to employers you have the skills to do the job by earning a bronze, silver, gold or platinum certificate.

HRD Employability Keyboarding

Gain basic knowledge of the keyboard to facilitate transitions into advanced keyboarding, introductory computer or office technology classes. Explore careers and understand the importance of keyboarding/data entry skills in employment.

HRD Financial Literacy

Gain the basic skills of finances. Learn how to write checks, how to open and balance a checking or savings account, how to track your spending, how to discern between want and needs, how to budget, and how to build credit.

HRD Job Fair Bootcamp

Prepare for a job fair by gaining valuable insight on what employers are looking for. Assistance with creating an up-to-date resume as well as building interview skills will be discussed in this class. Classes are offered as needed.

HRD Resume/Interviewing/Internet Job Search

Professionally prepare for the job you want! Utilize resume development techniques to complete a professional resume; prepare for your interview; become familiar with application procedures; and do Internet job searches to assist you in locating and obtaining employment.

HRD Success By Choice-Motivation and Retention

Develop a healthy self-esteem and positive attitude to enhance personal and career success. Learn self-management skills, personal branding, and emotional intelligence skills. Establish goals and explore career opportunities.

HRD Tech Academy

Complete career and personality assessments, and match career exploration with current skills, experience and interests for success in a specific career path. Research career opportunities, wages, and regional employment growth. Utilize goal setting and achievement by developing a written plan of action for success in a chosen career path. Learn how to create a resume and cover letter, basic computer skills, social media resources, economic literacy, and successful interviewing skills.

HRD Working Smart

Learn employer expectations of self-management on the job, work ethics, communication skills, problem solving, and conflict management.

NCWorks Career Center at The Ford Miller Employment and Training Center

Career Planning, Training & Placement Services

SERVICES

Adult High School (AHS) Diploma

Career Assessment/Testing
Career Counseling
Career Exploration/Research
Career /Job Related Fax & Copy Services
Career Pathway Certificate/Diploma Courses

Career Readiness Certificate (CRC)

Computer Software Tutorials
Education & Training Information
English Language Acquisition (ELA)

High School Equivalency (HSE) Diploma

Internet Job Search
Interview/Job Search Preparation
Job Listings/Job Referrals
Labor Market Information
Needs & Service Referral
Resume Preparation
WorkKeys®Preparation
WorkKeys®Testing

SHORT-TERM JOB READINESS CLASSES

Classes are offered at no cost if you are unemployed, have been notified of a layoff, or are working and meet special income guidelines.

Industry Pre-Hire or Re-Hire Training
Internet Job Search/ NCWorks Orientation
Resume & Interviewing

Computer Literacy
TECH Academy
Financial Literacy

PARTNERING AGENCIES

Division of Workforce Solutions
McDowell Technical Community College
Workforce Innovations & Opportunity Act (WIOA Adult and Youth Program)
McDowell County Dept. of Social Services (DSS)
Vocation Rehabilitation (VR)
Community Action Opportunities (Life Works)
McDowell Access To Care & Health (Match Program)
Senior Community Service Employment Program (Title V)

LOCATION & HOURS

NCWorks Career Center at
The Ford Miller Employment and Training Center
316 Baldwin Avenue, Suite 2, Marion, NC 28752
Phone: 828-659-6001 / Fax: 828-659-8733
Monday – Thursday 8:30 am—5:00 pm
Friday 8:30 am—12 noon

Technical and Vocational Programs

Please refer to the following lists when selecting electives in Humanities/Fine Arts and Social/Behavioral Sciences in all academic programs except College Transfer and General Education.

Humanities/Fine Arts

Select one of the following:

ART	111	Art Appreciation	3	0	3
DRA	111	Theatre Appreciation	3	0	3
DRA	126	Storytelling	3	0	3
HUM	110	Technology and Society	3	0	3
HUM	115	Critical Thinking	3	0	3
HUM	122	Southern Culture	2	2	3
MUS	110	Music Appreciation	3	0	3
MUS	210	History of Rock Music	3	0	3
PHI	210	History of Philosophy	3	0	3
REL	110	World Religion	3	0	3
REL	211	Intro to Old Testament	3	0	3
REL	212	Intro to New Testament	3	0	3

Social/Behavioral Science

Select one of the following:

ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
POL	120	American Government	3	0	3
POL	130	State and Local Government	3	0	3
PSY	150	General Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3
SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3

Academic Programs

911 Communications and Operations

C55470 (Certificate) (Pending SACSCOC Approval)

The 911 Communications and Operations curriculum is designed to provide new students, as well as current practitioners, with knowledge and skills in the areas necessary for entrance or advancement within emergency communications.

Emphasis is placed on the development of concepts and theories of public safety communication systems, basic office software skills, technical writing, business math and statistics, cybersecurity fundamentals, public and interpersonal relations, understand local government finance systems, basics of GIS, personnel management and supervision, project coordination, time management, and organizational skills, grant writing, introduction to computers and networks, mental health awareness, and adaptation to technology within emergency communication organizations.

Employment opportunities exist in a variety of areas, including: local government emergency communication organizations, county sheriff's departments, 911 emergency dispatch organizations, law enforcement, fire and EMS agencies, private communication centers, and emergency management.

A criminal background check may be required as a condition of employment in the 911 Emergency Communication field.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class	Lab	Work/ Clinical Credit	Credit
I. Major Hours (Core)						
EME	111	911 Communications & Operations I	2	2	0	3
EME	112	911 Communications & Operations II	2	2	0	3
EME	211	Advanced 911 Communications & Ops	2	2	0	3
GIS	110	Survey of GIS/GPS	1	0	0	1
GIS	111	Intro to Geographic Info System	2	2	0	3
PAD	151	Intro to Public Admin	3	0	0	3

911 Communications & Operations Certificate (C55470) ***Recommended Semester Schedule***

First Year – Fall Semester

EME	111	911 Communications & Operations I	2	2	0	3
GIS	110	Survey of GIS/GPS	1	0	0	1
PAD	151	Intro to Public Admin	3	0	0	3

First Year – Spring Semester

EME	112	911 Communications & Operations II	2	2	0	3
GIS	111	Intro to Geographic Info Systems	2	2	0	3

Second Year – Fall Summer

EME	211	Adv 911 Communications & Operations	2	2	0	3
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Accounting and Finance

Concentration: Accounting

A25800A (Associate Degree) C25800A, C25800B, C25800C, C25800D (Certificates)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/Lab/Credit			
I.	General Education Courses					
	COM	120	Interpersonal Communication	3	0	3
	or					
	COM	231	Public Speaking	3	0	3
	ENG	111	Writing and Inquiry	3	0	3
	MAT	143	Quantitative Literacy	2	2	3
	Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79					
II.	Major Courses					
A.	Core Courses					
	ACC	120	Principles of Financial Accounting	3	2	4
	ACC	121	Principles of Managerial Accounting	3	2	4
	BUS	115	Business Law	3	0	3
	BUS	225	Business Finance	3	0	3
	CIS	110	Introduction to Computers	2	2	3
	CTS	130	Spreadsheet	2	2	3
	ECO	252	Principles of Macroeconomics	3	0	3
III.	Concentration					
	ACC	129	Individual Income Tax	2	2	3
	ACC	140	Payroll Accounting	1	2	2
	ACC	220	Intermediate Accounting I	3	2	4
IV.	Other Major Courses					
	Take 8 credits from:					
	ACC	130	Business Income Taxes	2	2	3
	ACC	150	Accounting Software Applications	1	2	2
	ACC	180	Practices in Bookkeeping	3	0	3
	ACC	221	Intermediate Accounting II	3	2	4
	Take 9 credits from:					
	BUS	110	Introduction to Business	3	0	3
	BUS	137	Principles of Management	3	0	3
	OST	122	Office Computations	2	2	3
	OST	136	Word Processing	2	2	3
	OST	153	Office Finance Solutions	2	2	3
	OST	286	Professional Development	3	0	3
	BAF	111	Teller Training	3	0	3
	WBL	111	Work-Based Learning I	0	10	1

WBL	121	Work-Based Learning II	0	10	1
WBL	131	Work-Based Learning III	0	10	1

V. Other Required Courses

ACC	227	Practices in Accounting	3	0	3
ACA	115	Success and Study Skills	0	2	1

Total Credits: 68

Recommended Semester Schedule

First Year Fall

ACA	115	Success and Study Skills	0	2	1
ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3
OST	122	Office Computations	2	2	3

First Year Spring

ACC	121	Principles of Managerial Accounting	3	2	4
ACC	180	Practices in Bookkeeping	3	0	3
BUS	115	Business Law	3	0	3
CTS	130	Spreadsheet	2	2	3

First Year Summer

MAT	143	Quantitative Literacy	2	2	3
		Humanities Elective	3	0	3

Second Year Fall

ACC	220	Intermediate Accounting I	3	2	4
ACC	129	Individual Income Tax	2	2	3
OST	136	Word Processing	2	2	3
BUS	225	Business Finance	3	0	3
		Social Science Elective	3	0	3

Second Year Spring

ACC	150	Accounting Software Applications	1	3	2
ECO	252	Principles of Macroeconomics	3	0	3
OST	153	Office Finance Solutions	2	2	3
ACC	140	Payroll Accounting	1	3	2
ENG	111	Writing and Inquiry	3	0	3

Second Year Summer

ACC	227	Practices in Accounting	3	0	3
COM	231	Public Speaking	3	0	3
or					
COM	120	Interpersonal Communication	3	0	3

Accounting Certificate Program (C25800A)

Title				Class/Lab/Credit		
I.	Major Courses					
	ACC	120	Principles of Financial Accounting	3	2	4
	ACC	121	Principles of Managerial Accounting	3	2	4
	CIS	110	Introduction to Computers	2	2	3
II.	Other Major Courses					
	BUS	110	Introduction to Business	3	0	3

Total Credits: 14

Recommended Semester Schedule

First Year Fall					
	ACC	120	Principles of Accounting	3	2 4
	CIS	110	Introduction to Computers	2	2 3
	BUS	110	Introduction to Business	3	0 3
First Year Spring					
	ACC	121	Principles of Managerial Accounting	3	2 4

Accounts Payable, Accounts Receivable, Bookkeeping Certificate Program (C25800B)

Title				Class/Lab/Credit		
I.	Major Courses					
	ACC	120	Principles of Financial Accounting	3	2	4
	ACC	121	Principles of Managerial Accounting	3	2	4
	CIS	110	Introduction to Computers	2	2	3
II.	Other Major Courses					
	ACC	180	Practices in Bookkeeping	3	0	3
	OST	153	Office of Finance Solutions	2	2	3

Total Credits: 17

Recommended Semester Schedule

First Year Fall					
	ACC	120	Principles of Accounting	3	2 4
	CIS	110	Introduction to Computers	2	2 3
First Year Spring					
	ACC	121	Principles of Managerial Accounting	3	2 4
	ACC	180	Practices in Bookkeeping	3	0 3
	OST	153	Office Finance Solutions	2	2 3

Income Tax Preparer Certificate Program (C25800C)

Title				Class/Lab/Credit		
I.	Major Courses					
	ACC	120	Principles of Financial Accounting	3	2	4
	ACC	121	Principles of Managerial Accounting	3	2	4
	ACC	129	Individual Income Tax	2	2	3

II.	Other Major Courses					
	ACC	130	Business Income Taxes	2	2	3
	BUS	110	Introduction to Business	3	0	3

Total Credits: 17

Recommended Semester Schedule

First Year Fall						
	ACC	120	Principles of Accounting	3	2	4
	ACC	129	Individual Income Tax	2	2	3
	BUS	110	Introduction to Business	3	0	3

First Year Spring						
	ACC	121	Principles of Managerial Accounting	3	2	4
	ACC	130	Business Income Taxes	2	2	3

Payroll Accounting Clerk Certificate Program (C25800D)

Title				Class/Lab/Credit		
I.	Major Courses					
	ACC	120	Principles of Financial Accounting	3	2	4
	ACC	121	Principles of Managerial Accounting	3	2	4
	ACC	140	Payroll Accounting	1	3	2
	CIS	110	Introduction to Computers	2	2	3
II.	Other Major Courses					
	OST	153	Office Finance Solutions	2	2	3

Total Credits: 16

Recommended Semester Schedule

First Year Fall						
	ACC	120	Principles of Accounting	3	2	4
	CIS	110	Introduction to Computers	2	2	3

First Year Spring						
	ACC	121	Principles of Managerial Accounting	3	2	4
	OST	153	Office Finance Solutions	2	2	3
	ACC	140	Payroll Accounting	1	3	2

Accounting and Finance

Concentration: Finance Services

A25800B (Associate Degree), C25800E (Certificate)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/Lab/Credit		
I.	General Education Courses				
	COM	120	Interpersonal Communication	3	0 3
	or				
	COM	231	Public Speaking	3	0 3
	ENG	111	Writing and Inquiry	3	0 3
	MAT	143	Quantitative Literacy	2	2 3
	Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79				
II.	Major Courses				
A.	Core Courses				
	ACC	120	Principles of Financial Accounting	3	2 4
	ACC	121	Principles of Managerial Accounting	3	2 4
	BUS	115	Business Law	3	0 3
	BUS	225	Business Finance	3	0 3
	CIS	110	Introduction to Computers	2	2 3
	CTS	130	Spreadsheet	2	2 3
	ECO	252	Principles of Macroeconomics	3	0 3
III.	Concentration				
	BAF	143	Financial Planning	3	0 3
	BUS	147	Business Insurance	3	0 3
	BUS	125	Personal Finance	3	0 3
IV.	Other Major Courses				
	Take 8 credits from:				
	ACC	130	Business Income Taxes	2	2 3
	ACC	150	Accounting Software Applications	1	2 2
	ACC	180	Practices in Bookkeeping	3	0 3
	ACC	220	Intermediate Accounting I	3	2 4
	Take 9 credits from:				
	ACC	221	Intermediate Accounting II	3	2 4
	BUS	110	Introduction to Business	3	0 3
	BUS	137	Principles of Management	3	0 3
	OST	122	Office Computations	2	2 3
	OST	136	Word Processing	2	2 3
	OST	153	Office Finance Solutions	2	2 3

OST	286	Professional Development	3	0	3
BAF	111	Teller Training	3	0	3
WBL	111	Work-Based Learning I	0	10	1
WBL	121	Work-Based Learning II	0	10	1
WBL	131	Work-Based Learning III	0	10	1

V. Other Required Courses

ACC	227	Practices in Accounting	3	0	3
ACA	115	Success and Study Skills	0	2	1

Total Credits: 68

Recommended Semester Schedule

First Year Fall

ACA	115	Success and Study Skills	0	2	1
ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3
OST	122	Office Computations	2	2	3

First Year Spring

ACC	121	Principles of Managerial Accounting	3	2	4
BAF	111	Teller Training	3	0	3
BUS	115	Business Law	3	0	3
CTS	130	Spreadsheet	2	2	3

First Year Summer

MAT	143	Quantitative Literacy	2	2	3
		Humanities Elective	3	0	3

Second Year Fall

ACC	220	Intermediate Accounting I	3	2	4
BAF	143	Financial Planning	3	0	3
BUS	147	Business Insurance	3	0	3
BUS	225	Business Finance	3	0	3
		Social Science Elective	3	0	3

Second Year Spring

ACC	150	Accounting Software Applications	1	3	2
ECO	252	Principles of Macroeconomics	3	0	3
OST	153	Office Finance Solutions	2	2	3
ACC	140	Payroll Accounting	1	3	2
ENG	111	Writing and Inquiry	3	0	3

Second Year Summer

ACC	227	Practices in Accounting	3	0	3
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3

Financial Services Certificate Program (C25800E)

<u>Title</u>			<u>Class/Lab/Credit</u>		
I.	Major Courses				
	ACC	120	Principles of Financial Accounting	3	2 4
	ACC	121	Principles of Managerial Accounting	3	2 4
	CIS	110	Introduction to Computers	2	2 3
	BAF	143	Financial Planning	3	0 3
II.	Other Major Courses				
	BAF	111	Teller Training	3	0 3
Total Credits: 17					

Recommended Semester Schedule

First Year Fall					
	ACC	120	Principles of Accounting	3	2 4
	CIS	110	Introduction to Computers	2	2 3
	BAF	143	Financial Planning	3	0 3
First Year Spring					
	ACC	121	Principles of Managerial Accounting	3	2 4
	BAF	111	Teller Training	3	0 3

Advertising and Graphic Design

A30100 (Associate Degree)

D30100 (Diploma-Evening) C30100 (Certificate-Evening)

This curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and business with in-house graphics operations.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

**This curriculum was designed to be entered in the fall of each year. Some classes may not be offered every semester.*

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences					
ART	111	Art Appreciation **Recommended	3	0	3
PSY	150	General Psychology **Recommended	3	0	3

II. Major Courses

A. Core

Required Courses

GRD	110	Typography I	2	2	3
GRD	280	Portfolio Design	2	4	4

Required Subject Areas

ART	121	Two-Dimensional Design	0	6	3
GRD	121	Drawing Fundamentals I	1	3	2
GRD	141	Graphic Design I	2	4	4
GRD	142	Graphic Design II	2	4	4
GRD	151	Computer Design Basics	1	4	3
GRD	152	Computer Design Techniques I	1	4	3

B. Other Major Courses

Take 24 credits:

ART	171	Digital Design I	0	6	3
ART	275	Introduction to Graphic Design	0	6	3
GRD	160	Photo Fundamentals I	1	4	3
GRD	241	Graphic Design III	2	4	4
GRD	242	Graphic Design IV	2	4	4
GRD	249	Advanced Design Practice	1	9	4
GRD	263	Illustrative Imaging	1	4	3
GRD	281	Design of Advertising	1	3	2

Take 3 credits:

WBL	111	Work-Based Learning I	0	10	1
WEB	115	Web Markup and Scripting	2	2	3
WEB	120	Intro. to Internet Multimedia	2	2	3
WEB	140	Web Development Tools	2	2	3
WEB	210	Web Design	2	2	3
WEB	214	Social Media	2	2	3

III. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 71***Recommended Semester Schedule*****First Year-Fall**

ACA	115	Success and Study Skills	0	2	1
ART	121	Two-Dimensional Design	0	6	3
ART	275	Introduction to Graphic Design	0	6	3
ENG	111	Writing and Inquiry	3	0	3
GRD	141	Graphic Design I	2	4	4
GRD	151	Computer Design Basics	1	4	3

First Year-Spring

ART	171	Digital Design I	0	6	3
COM	231	Public Speaking	3	0	3
GRD	121	Drawing Fundamentals I	1	3	2
GRD	142	Graphic Design II	2	4	4
GRD	152	Computer Design Techniques	1	4	3

First Year-Summer

GRD	160	Photo Fundamentals I	1	4	3
GRD	281	Design of Advertising	1	3	2

Second Year-Fall

GRD	110	Typography	2	2	3
GRD	241	Graphic Design III	2	4	4
GRD	263	Illustrative Imaging	1	4	3
MAT	143	Quantitative Literacy	2	2	3
Major Elective-See list of courses			3	0	3

Second Year-Spring

ART	111	Art Appreciation ** Recommended	3	0	3
GRD	242	Graphic Design IV	2	4	4
GRD	249	Advanced Design Practice	1	9	4
GRD	280	Portfolio Design	2	4	4
PSY	150	General Psychology **Recommended	3	0	3

Advertising and Graphic Design Diploma Program (D30100)

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
II. Major Courses					
Core					
GRD	110	Typography I	2	2	3
GRD	280	Portfolio Design	2	4	4
Required Subject Areas					
ART	121	Two-Dimensional Design	0	6	3
GRD	121	Drawing Fundamentals I	1	3	2
GRD	141	Graphic Design I	2	4	4
GRD	142	Graphic Design II	2	4	4
GRD	151	Computer Design Basics	1	4	3
GRD	152	Computer Design Techniques I	1	4	3
III. Other Major Courses					
ART	171	Digital Design I	0	6	3
ART	275	Introduction to Graphic Design	0	6	3
GRD	281	Design of Advertising	1	3	2
IV. Other Required Courses					
ACA	115	Success and Study Skills	0	2	1
Total Credits: 41					

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
ART	121	Two-Dimensional Design	0	6	3
ART	275	Introduction to Graphic Design	0	6	3
GRD	141	Graphic Design I	2	4	4
GRD	151	Computer Design Basics	1	4	3

First Year-Spring

ART	171	Digital Design I	0	6	3
GRD	121	Drawing Fundamentals I	1	3	2
GRD	142	Graphic Design II	2	4	4
GRD	152	Computer Design Techniques	1	4	3

First Year-Summer

COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
GRD	281	Design of Advertising	1	3	2

Second Year-Fall

GRD	110	Typography	2	2	3
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Second Year-Spring

GRD	280	Portfolio Design	2	4	4
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Advertising and Graphic Design Certificate Program (C30100)

Title	Class/Lab/Credit
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I. Major Courses

ART	121	Two-Dimensional Design	0	6	3
GRD	141	Graphic Design I	2	4	4
GRD	151	Computer Design Basics	1	4	3

II. Other Major Courses

ART	171	Digital Design I	0	6	3
ART	275	Introduction to Graphic Design	0	6	3

Total Credits: 16***Recommended Semester Schedule*****First Year-Fall**

ART	275	Introduction to Graphic Design	0	6	3
GRD	151	Computer Design Basics	1	4	3

First Year-Spring

ART	171	Digital Design I	0	6	3
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Second Year-Fall

ART	121	Two-Dimensional Design	0	6	3
GRD	141	Graphic Design I	2	4	4

Air Conditioning, Heating and Refrigeration Technology

A35100 (Associate Degree) D35100A (Diploma) C35100A (Certificate) C35100B (Certificate)

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

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Expository Writing	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79

II. Major Core Courses

AHR	110	Intro. to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3
AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
AHR	114	Heat Pump Technology	2	4	4
AHR	130	HVAC Controls	2	2	3
AHR	211	Residential System Design	2	2	3
AHR	212	Advanced Comfort Systems	2	6	4
AHR	213	HVACR Building Code	1	2	2

III. Other Major Courses

Take 8 credits

AHR	180	HVACR Customer Relations	1	0	1
BPR	135	Schematics and Diagrams	2	0	2
ELC	128	Introduction to PLC	2	2	3
ISC	112	Industrial Safety	2	0	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	113	Work-Based Learning I	0	30	3
WBL	114	Work-Based Learning I	0	40	4
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	123	Work-Based Learning II	0	30	3
WBL	124	Work-Based Learning II	0	40	4
WBL	131	Work-Based Learning III	0	10	1

WBL	132	Work-Based Learning III	0	20	2
WBL	133	Work-Based Learning III	0	30	3
WBL	134	Work-Based Learning III	0	40	4
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
WBL	213	Work-Based Learning IV	0	30	3
WBL	214	Work-Based Learning IV	0	40	4

Take 12 credits

AHR	115	Introducation to Refrigeration	1	3	2
AHR	160	Refrigerant Certification	1	0	1
CIS	110	Introduction to Computers	2	2	3
EGR	125	Application Software for Tech	1	2	2
REF	117	Refrigeration Controls	2	6	4

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 69

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
AHR	110	Intro. to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3
ISC	112	Industrial Safety	2	0	2
ENG	111	Writing and Inquiry	3	0	3

First Year-Spring

AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
AHR	130	HVAC Controls	2	2	3
ELC	128	Intro to PLC	2	3	3

First Year-Summer

AHR	114	Heat Pump Technology	2	4	4
AHR	115	Refrigeration Systems	1	3	2

Second Year-Fall

AHR	160	Refrigerant Certification	1	0	1
AHR	180	HVACR Customer Relations	1	0	1
AHR	212	Advanced Comfort Systems	2	6	4
AHR	213	HVACR Building Code	1	2	2
EGR	125	Appl Software for Tech	1	2	2
MAT	143	Quantitative Literacy	2	2	3

Second Year-Spring

AHR	211	Residential System Design	2	2	3
BPR	135	Schematics and Diagrams	2	0	2
CIS	110	Introduction to Computers	2	2	3
COM	120	Interpersonal Communications	3	0	3
Elective		Social/Behavior Science	3	0	3

Second Year-Summer

ACA	220	Professional Transition	1	0	1
REF	117	Refrigeration Controls	2	6	4
Elective		Humanities/Fine Arts	3	0	3

Note: WBL 111, 112, 113, 114, 121, 122, 123, 124, 131, 132, 133, 134, 211, 212, 213, 214 may count for any of the following:
ELC 128, AHR 115, REF 117, AHR 160, AHR 180, EGR 125, BPR 135, ISC 112, AHR 130

Air Conditioning, Heating and Refrigeration Technology Diploma Program (D35100)

Title	Class/Lab/Credit
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I. General Education Courses

ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3

II. Major Courses

AHR	110	Introduction to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3
AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
AHR	114	Heat Pump Technology	2	4	4
AHR	130	HVAC Controls	2	2	3
AHR	211	Residential System Design	2	2	3
AHR	213	HVACR Building Code	1	2	2

III. Other Major Courses

Take 8 credits

AHR	160	Refrigeration Certificate	1	0	1
BPR	135	Schematics and Diagrams	2	0	2
CIS	110	Introduction to Computers	2	2	3
ISC	112	Industrial Safety	2	0	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 44***Recommended Semester Schedule*****First Year-Fall**

ACA	115	Success and Study Skills	0	2	1
AHR	110	Introduction to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3
AHR	160	Refrigeration Certification	1	0	1

First Year-Spring

AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
AHR	130	HVAC Controls	2	2	3
AHR	211	Residential System Design	2	2	3
BPR	135	Schematics and Diagrams	2	0	2

First Year-Summer

AHR	114	Heat Pump Technology	2	4	4
CIS	110	Introduction to Computers	2	2	3
MAT	143	Quantitative Literacy	2	2	3

Second Year-Fall

ACA	220	Professional Transition	1	0	1
AHR	213	HVACR Building Code	1	2	2
ENG	111	Writing and Inquiry	3	0	3
ISC	112	Industrial Safety	2	0	2

Air Conditioning, Heating and Refrigeration Technology Certificate Program (C35100A) Level I

Title	Class/Lab/Credit				
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I. Major Courses

AHR	110	Introduction to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3
AHR	112	Heating Technology	2	4	4

Total Credits: 12***Recommended Semester Schedule*****First Year-Fall**

AHR	110	Introduction to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3

First Year-Spring

AHR	112	Heating Technology	2	4	4
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Air Conditioning, Heating and Refrigeration Technology Certificate Program (C35100B) Level II

Title	Class/Lab/Credit				
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I. Major Courses

AHR	110	Introduction to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3
AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
AHR	160	Refrigeration Certification	1	0	1

Total Credits: 17

Recommended Semester Schedule

First Year-Fall

AHR	110	Introduction to Refrigeration	2	6	5
AHR	111	HVACR Electricity	2	2	3
AHR	160	Refrigeration Certification	1	0	1

First Year-Spring

AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4

Applied Engineering Technology

A40130 (Associate Degree), D40130 (Diploma), C40130A (Certificate), C40130B (Certificate)

Applied Engineering Technology is a course of study that prepares the students to use basic engineering principles and technical skills to solve technical problems in various types of industry. The course work emphasizes analytical and problem solving skills. The curriculum includes courses in safety, math, physics, electricity, engineering technology, and technology specific specialty areas. Graduates should qualify for employment in a wide range of positions in research and development, manufacturing, sales, design, inspection, or maintenance. Employment opportunities exist in automation, computer, electrical, industrial, or mechanical engineering fields, where graduates will function as engineering technicians.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Courses

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/ Trigonometry	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79

II. Major Courses

A. Core Courses

EGR	125	Applied Software for Technology	1	2	2
ISC	112	Industrial Safety	2	0	2

III. Concentration

DFT	119	Basic CAD	1	2	2
ELC	131	Circuit Analysis I	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
ELC	128	Introduction to PLC	2	3	3
ATR	112	Introduction to Automation	2	3	3

IV. Other Major Courses

Take 8 credits

ELN	133	Digital Electronics	3	3	4
MAC	121	Introduction to CNC	2	0	2
MNT	110	Introduction to Maintenance Procedures	1	3	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	113	Work-Based Learning I	0	30	3
WBL	114	Work-Based Learning I	0	40	4
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	123	Work-Based Learning II	0	30	3
WBL	124	Work-Based Learning II	0	40	4
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	133	Work-Based Learning III	0	30	3
WBL	134	Work-Based Learning III	0	40	4
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
WBL	213	Work-Based Learning IV	0	30	3
WBL	214	Work-Based Learning IV	0	40	4

Take 23 credits

AHR	110	Introduction to Refrigeration	2	6	5
CIS	110	Introduction to Computers	2	2	3
ELN	233	Microprocessor Systems	3	3	4
EGR	150	Introduction to Engineering	1	2	2
MEC	130	Mechanisms	2	2	3
PHY	131	Physics-Mechanics	3	2	4
WLD	112	Basic Welding Processes	1	3	2

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 67

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
EGR	125	Applied Software for Tech	1	2	2
ELC	131	Circuit Analysis	3	3	4
ELN	133	Digital Electronics	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
ISC	112	Industrial Safety	2	0	2

First Year-Spring

CIS	110	Introduction to Computers	2	2	3
DFT	119	Basic CAD	1	2	2
ELC	128	Introduction to PLC	2	3	3
ENG	111	Writing and Inquiry	3	0	3
MNT	110	Introduction to Maintenance Procedures	1	3	2

First Year-Summer

MAT	121	Algebra/ Trigonometry	2	2	3
Humanities Elective			3	0	3
Social Science Elective			3	0	3

Second Year-Fall

AHR	110	Introduction to Refrigeration	2	6	5
ATR	112	Introduction to Automation	2	3	3
MAC	121	Introduction to CNC	2	0	2
MEC	130	Mechanisms	2	3	3
WLD	112	Basic Welding Processes	1	3	2

Second Year-Spring

ACA	220	Professional Transition	1	0	1
COM	120	Interpersonal Communications	3	0	3
EGR	150	Introduction to Engineering	1	2	2
ELN	233	Microprocessors Systems	3	3	4
PHY	131	Physics-Mechanics	3	2	4

Note: WBL 111, 112, 113, 114, 121, 122, 123, 124, 131, 132, 133, 134, 211, 212, 213, 214 may count for any of the following:
ELN 133, MNT 110, MEC 130, WLD 112, PHY 131, EGR 150, ELN 233, ISC 112

Applied Engineering Diploma Program (D40130)

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
II. Major Courses					
ATR	112	Introduction to Automation	2	3	3
DFT	119	Basic CAD	1	2	2
EGR	125	Applied Software Technology	1	2	2
ELC	128	Introduction to PLC	2	3	3
ELC	131	Circuit Analysis I	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
ISC	112	Industrial Safety	2	0	2
III. Other Major Courses					
Take 11 hours					
CIS	110	Introduction to Computers	2	2	3
ELN	233	Microprocessor Systems	3	3	4
MAC	121	Introduction to CNC	2	0	2
MNT	110	Introduction to Maintenance Procedures	1	3	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
IV. Other Required Courses					
ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1
Total Credits: 38					

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
EGR	125	Applied Software Technology	1	2	2
ELC	131	Circuit Analysis I	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
ISC	112	Industrial Safety	2	0	2

First Year-Spring

DFT	119	Basic CAD	1	2	2
ELC	128	Introduction to PLC	2	3	3
ELN	233	Microprocessors Systems	3	3	4
ENG	111	Writing and Inquiry	3	0	3
MNT	110	Introduction to Maintenance Procedures	1	3	2

Second Year-Fall

ACA	220	Professional Transition	1	0	1
ATR	112	Introduction to Automation	2	3	3
CIS	110	Introduction to Computers	2	2	3
COM	120	Interpersonal Communication	3	0	3
MAC	121	Introduction to CNC	2	0	2

Applied Engineering Certificate Program (C40130A) Level I

Title	Class/Lab/Credit				
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I. Major Courses

ATR	112	Introduction to Automation	2	3	3
ELC	131	Circuit Analysis	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
MNT	110	Introduction to Maintenance Procedures	1	3	2

Total Credits: 12***Recommended Semester Schedule*****First Year-Fall**

ATR	112	Introduction to Automation	2	3	3
ELC	131	Circuit Analysis I	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3

First Year-Spring

MNT	110	Introduction to Maintenance Procedures	1	3	2
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Applied Engineering Certificate Program (C40130B) Level II

Title	Class/Lab/Credit				
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I. Major Courses

ATR	112	Introduction to Automation	2	3	3
DFT	119	Basic CAD	1	2	2
ELC	131	Circuit Analysis	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
ISC	112	Industrial Safety	2	0	2

II. Other Major Courses

MNT	110	Introduction to Maintenance Procedures	1	3	2
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Total Credits: 16***Recommended Semester Schedule*****First Year-Fall**

ATR	112	Introduction to Automation	2	3	3
ELC	131	Circuit Analysis I	3	3	4
ISC	112	Industrial Safety	2	0	2
HYD	110	Hydraulics/Pneumatics I	2	3	3

First Year-Spring

DFT	119	Basic CAD	1	2	2
MNT	110	Introduction to Maintenance Procedures	1	3	2

Automotive Systems Technology

A60160 (Associate Degree) D60160 (Diploma) C60160A (Certificate) C60160B (Certificate)

Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entrylevel transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

Automotive Systems Technology: A program that 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 condition systems.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

<u>Title</u>	<u>Class/Lab/Credit</u>
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I. General Education Courses

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Major Courses

TRN	120	2013FA Basic Transportation Electricity	4	3	5
TRN	140	Transportation Climate Control	1	2	2
TRN	170	2013FA PC Skills for Transportation	1	2	2

III. Concentration

AUT	116	Engine Repair	2	3	3
AUT	141	Suspension and Steering Systems	2	3	3
AUT	151	Brake Systems	2	3	3
AUT	181	Engine Performance-1	2	3	3

IV. Other Major Courses

Take 8 credits:

AUT	183	Engine Performance-2	2	6	4
TRN	112	Powertrain Maint./Light Repair	2	6	4
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	113	Work-Based Learning I	0	30	3
WBL	114	Work-Based Learning I	0	40	4
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	123	Work-Based Learning II	0	30	3
WBL	124	Work-Based Learning II	0	40	4
WBL	131	Work-Based Learning III	0	10	1

WBL	132	Work-Based Learning III	0	20	2
WBL	133	Work-Based Learning III	0	30	3
WBL	134	Work-Based Learning III	0	40	4
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
WBL	213	Work-Based Learning IV	0	30	3
WBL	214	Work-Based Learning IV	0	40	4

Take 29 credits

ATT	115	Green Trans. Safety & Service	1	4	3
ATT	125	Hybrid-Electric Trans	2	4	4
ATT	140	Emerging Transp Tech	2	3	3
AUT	113	Automotive Servicing I	0	6	2
AUT	116A	Engine Repair Lab	0	3	1
AUT	141A	Suspension and Steering Lab	0	3	1
AUT	151A	Brake Systems Lab	0	3	1
AUT	181A	Engine Performance I Lab	0	3	1
AUT	221	Auto Transmissions/Transaxles	2	3	3
AUT	221A	Auto Transmissions/Transaxles Lab	0	3	1
AUT	231	Manual Transmissions/Transaxles/Drivetrains	2	3	3
AUT	231A	Manual Transmissions/Transaxles/Drivetrains Lab0	3	1	
LDD	112	Intro Light-Duty Diesel	2	2	3
LDD	181	LDD Fuel Systems	2	6	4
TRN	111	Chasis Maint/Light Repair	2	6	4
TRN	130	Introduction to Sustainable Transportation	2	2	3
TRN	140A	Transportation Climate Control Lab	1	2	2
TRN	145	Advanced Transportation Electronics	2	3	3
TRN	180	Basic Welding for Transportation	1	4	3

III. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 75

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
AUT	116	Engine Repair	2	3	3
AUT	116A	Engine Repair Lab	0	3	1
TRN	120	Basic Transportation Electricity	4	3	5
TRN	170	PC Skills for Transportation	1	2	2

First Year-Spring

AUT	181	Engine Performance I	2	3	3
AUT	181A	Engine Performance I Lab	0	3	1
MAT	143	Quantitative Literacy	2	2	3
TRN	111	Chassis Maint./Light Repair	2	6	4
TRN	145	Adv. Transportation Electronics	2	3	3

First Year-Summer

AUT	183	Engine Performance II	2	6	4
TRN	140	Transportation Climate Control	1	2	2
TRN	140A	Transportation Climate Control Lab	1	2	2
		Humanities Elective-see page 79	3	0	3

Second Year-Fall

AUT	221	Auto Transmissions/Transaxles	2	3	3
AUT	221A	Auto Transmissions/Transaxles Lab	0	3	1
AUT	231	Manual Transmissions/Transaxles/Drivetrains	2	3	3
AUT	231A	Manual Transmissions/Transaxles/Drivetrains Lab	0	3	1
TRN	180	Basic Welding for Transportation	1	4	3
Social/Behavioral Science Elective- See page 76			3	0	3

Second Year-Spring

ACA	220	Professional Transition	1	0	1
AUT	113	Automotive Servicing I	0	6	2
COM	120	Interpersonal Communication	3	0	3
ENG	111	Writing and Inquiry	3	0	3
TRN	112	Powertrain Maint./Light Repair	2	6	4
TRN	130	Intro. to Sustainable Transportation	2	2	3

Second Year-Summer

AUT	141	Suspension and Steering Systems	2	3	3
AUT	141A	Suspension and Steering Lab	0	3	1
AUT	151	Brake Systems	2	3	3
AUT	151A	Brake Systems Lab	0	3	1

Note: WBL 111, 112, 113, 114, 121, 122, 123, 124, 131, 132, 133, 134, 211, 212, 213, 214 may count for any of the following:
 AUT 116, AUT 116A, TRN 120, TRN 111, TRN 145, AUT 183, AUT 221, AUT 221A, AUT 231, AUT 231A, AUT 113, TRN 112

Automotive Systems Technology Diploma Program (D60160)

Title	Class/Lab/Credit
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I. General Education Courses

ENG	101	Applied Communications I	3	0	3
MAT	110	Mathematical Measurement and Literacy	2	2	3

II. Major Courses

AUT	116	Engine Repair	2	3	3
TRN	120	2013FA Basic Transportation Electricity	4	3	5
TRN	170	2013FA PC Skills for Transportation	1	2	2

III. Concentration

AUT	141	Suspension and Steering Systems	2	3	3
AUT	151	Brake Systems	2	3	3
AUT	181	Engine Performance-1	2	3	3

IV. Other Major Courses**Take 18 hours**

AUT	113	Automotive Servicing I	0	6	2
AUT	116A	Engine Repair Lab	0	3	1
AUT	141A	Suspension and Steering Lab	0	3	1
AUT	151A	Brake Systems Lab	0	3	1
AUT	181A	Engine Performance I Lab	0	3	1
AUT	183	Engine Performance-2	2	6	4
TRN	111	Chassis Light Maint/Light Repair	2	6	4
TRN	112	Intro to Sustainable Transp	2	6	4
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2

WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2

III. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 45

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
AUT	116	Engine Repair	2	3	3
AUT	116A	Engine Repair Lab	0	3	1
TRN	120	Basic Transportation Electricity	4	3	5
TRN	170	PC Skills for Transportation	1	2	2

First Year-Spring

AUT	181	Engine Performance I	2	3	3
AUT	181A	Engine Performance I Lab	0	3	1
TRN	111	Chasis Light Maint/Light Repair	2	6	4

First Year-Summer

AUT	183	Engine Performance II	2	6	4
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Second Year-Fall

ENG	101	Applied Communications I	3	0	3
MAT	110	Mathematical Measurement and Literacy	2	2	3

Second Year-Spring

ACA	220	Professional Transition	1	0	1
AUT	113	Automotive Servicing I	0	6	2
TRN	112	Intro to Sustainable Transp	2	6	4

Second Year-Summer

AUT	141	Suspension and Steering Systems	2	3	3
AUT	141A	Suspension and Steering Systems Lab	0	3	1
AUT	151	Brake Systems	2	3	3
AUT	151A	Brake Systems Lab	0	3	1

Automotive Systems Technology Certificate Program (C60160A) Level I

Title			Class/Lab/Credit		
I. Major Courses					
AUT	113	Automotive Servicing I	0	6	2
TRN	111	Chasis Maint/Light Repair	2	6	4
TRN	112	Powertrain Maint./Light Repair	2	6	4
TRN	170	PC Skills for Transportation	1	2	2

Total Credits: 12

High School Ariculation: Automotive Service I= TRN 111, Automotive Service II= TRN 112, Automotive Service III= AUT 113.

Recommended Semester Schedule

First Year-Fall

TRN	170	PC Skills for Transportation	1	2	2
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First Year-Spring

AUT	113	Automotive Servicing I	0	6	2
TRN	111	Chasis Maint/Light Repair	2	6	4
TRN	112	Powertrain Maint./Light Repair	2	6	4

Automotive Systems Technology Certificate Program (C60160B) Level II

Title			Class/Lab/Credit		
I. Major Courses					
AUT	113	Automotive Servicing I	0	6	2
AUT	116	Engine Repair	2	3	3
AUT	116A	Engine Repair Lab	0	3	1
TRN	111	Chasis Maint/Light Repair	2	6	4
TRN	112	Powertrain Maint./Light Repair	2	6	4
TRN	170	PC Skills for Transportation	1	2	2

Total Credits: 16

Recommended Semester Schedule

First Year-Fall

AUT	116	Engine Repair	2	3	3
AUT	116A	Engine Repair Lab	0	3	1
TRN	170	PC Skills for Transportation	1	2	2

First Year-Spring

AUT	113	Automotive Servicing I	0	6	2
TRN	111	Chasis Maint/Light Repair	2	6	4
TRN	112	Powertrain Maint./Light Repair	2	6	4

Basic Law Enforcement Training

C55120 (Certificate)

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 alcohol 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 examinations mandated 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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

**Enrollment in this program may be limited. Special admissions procedures may apply. Contact the BLET Coordinator for additional information.*

Title	Class/Lab/Credit
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I. Major Courses

CJC	110	Basic Law Enforcement BLET	10	30	20
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Total Credits: 20

Building Construction Technology

D35140 (Diploma)

These curriculums are designed to prepare individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Courses

ENG	111	Writing and Inquiry	3	0	3
MAT	110	Math Measurement & Literacy	2	2	3
or					
MAT	143	Quantitative Literacy	2	2	3

II. Major Courses

BPR	130	Print Reading-Construction	3	0	3
CAR	111	Carpentry I	3	15	8
CAR	112	Carpentry II	3	15	8
CST	131	OSHA/Safety/Certification	2	2	3
ELC	113	Residential Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
PLU	115	Basic Plumbing	2	6	4

Total Credits: 38

Recommended Semester Schedule

First Year-Fall

CAR	111	Carpentry I	3	15	8
BPR	130	Print Reading-Construction	3	0	3

First Year-Spring

ELC	113	Residential Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
PLU	115	Basic Plumbing	2	6	4

First Year-Summer

CST	131	OSHA/Safety/Certification	2	2	3
		Natural Science Mathematics	2	2	3

Second Year-Fall

CAR	112	Carpentry II	3	15	8
ENG	111	Writing and Inquiry	3	0	3

Business Administration

A25120B (Associate Degree) C25120B (Certificate)

This 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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
-------	------------------

I. General Education Courses

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Major Courses

ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law I	3	0	3
BUS	137	Principles of Management	3	0	3
CIS	110	Introduction to Computers	2	2	3
ECO	251	Principles of Microeconomics	3	0	3
MKT	120	Principles of Marketing	3	0	3

III. Concentration

BUS	125	Personal Finance	3	0	3
BUS	153	Human Resources Management	3	0	3
BUS	225	Business Finance	2	2	3
BUS	147	Business Insurance	3	0	3

IV. Other Major Courses (Take 21 credits from this list. Must be selected from identified prefixes)

ACC	121	Principles of Managerial Accounting	3	2	4
BUS	230	Small Business Management	3	0	3
BUS	280	REAL Small Business	4	0	4
CTS	130	Spreadsheet	2	2	3
DBA	110	Database Concepts	2	3	3
ECO	252	Principles of Macroeconomics	3	0	3
MKT	123	Fundamentals of Selling	3	0	3
OST	131	Keyboarding	1	2	2
OST	136	Word Processing	2	2	3
OST	236	Adv. Word/Information Processing	2	2	3

OST	286	Professional Development	3	0	3
WBL	111	Work-Based Learning I	0	10	1

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 71

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3

First Year-Spring

ACC	121	Principles of Managerial Accounting	3	2	4
BUS	115	Business Law	3	0	3
CTS	130	Spreadsheet	3	2	3
MKT	120	Principles of Marketing	3	0	3
Humanities/Social Sciences Elective-See list on page 79			3	0	3

First Year-Summer

BUS	147	Business Insurance	3	0	3
BUS	230	Small Business Management	3	0	3

Second Year-Fall

BUS	125	Personal Finance	3	0	3
BUS	137	Principles of Management	3	0	3
BUS	225	Business Finance	2	2	3
ECO	251	Principles of Microeconomics	3	0	3
MKT	123	Fundamentals of Selling	3	0	3

Second Year-Spring

BUS	153	Human Resource Management	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
OST	286	Professional Development	3	0	3
OST	136	Word Processing	2	2	3
Humanities/Social Sciences Elective-See list on page 79			3	0	3

Second Year-Summer

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3

Business Administration: General Certificate Program (C25120B)

Title	Class/Lab/Credit
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I. Major Courses

BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law I	3	0	3
BUS	137	Principles of Management	3	0	3
CIS	110	Introduction to Computers	2	2	3

III. Concentration

BUS	125	Personal Finance	3	0	3
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V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 16

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
BUS	110	Introduction to Business	3	0	3
BUS	137	Principles of Management	3	0	3

First Year-Spring

BUS	115	Business Law	3	0	3
BUS	125	Personal Finance	3	0	3
CIS	110	Introduction to Computers	2	2	3

** BUS 125 is listed in the recommended course sequence as a fall course, but it is currently being offered both fall and spring.

Business Administration

Concentration: Marketing

A25120M (Associate Degree) C25120M (Certificate)

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.

Course work includes: marketing, retailing, merchandising, selling, advertising, computer technology and management.

Graduates should qualify for marketing positions within organizations and employment in retailing services and product businesses.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Courses

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on Page 79.

II. Major Courses

ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law I	3	0	3
BUS	137	Principles of Management	3	0	3
CIS	110	Introduction to Computers	2	2	3
ECO	251	Principles of Microeconomics	3	0	3
MKT	120	Principles of Marketing	3	0	3

III. Concentration

MKT	123	Fundamentals of Selling	3	0	3
MKT	220	Advertising & Sales Promotion	3	0	3
MKT	225	Market Research	3	0	3
MKT	227	Marketing Applications	3	0	3
MKT	232	Social Media Marketing	3	2	4

IV. Other Major Courses

Take 16 credits from this list:)

ACC	121	Principles of Managerial Accounting	3	2	4
BUS	280	REAL Small Business	4	0	4
CTS	130	Spreadsheet I	2	2	3
DBA	110	Database Concepts	2	3	3
ECO	252	Principles of Macroeconomics	3	0	3
MKT	121	Retailing	3	0	3
MKT	224	International Marketing	3	0	3
MKT	230	Public Relations	3	0	3
OST	131	Keyboarding	1	2	2
OST	136	Word Processing	2	2	3
OST	286	Professional Development	3	0	3
WBL	111	Work-Based Learning I	0	10	1

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 70***Recommended Semester Schedule*****First Year-Fall**

ACA	115	Success and Study Skills	0	2	1
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
MKT	232	Social Media Marketing	3	2	4

First Year-Spring

BUS	115	Business Law	3	0	3
CTS	130	Spreadsheet I	3	2	3
MKT	120	Principles of Marketing	3	0	3
MKT	224	International Marketing	3	0	3
Humanities/Social Sciences Elective-See list on page 79			3	0	3

First Year-Summer

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
MKT	220	Advertising & Sales Promotion	3	0	3

Second Year-Fall

ACC	120	Principles of Financial Accounting	3	2	4
ECO	251	Principles of Microeconomics	3	0	3
BUS	137	Principles of Management	3	0	3
MKT	123	Fundamentals of Selling	3	0	3
MKT	121	Retailing	3	0	3

Second Year-Spring

ACC	121	Principles of Managerial Accounting	3	2	4
ECO	252	Principles of Macroeconomics	3	0	3
MKT	225	Market Research	3	0	3
MKT	227	Marketing Applications	3	0	3

Second Year-Summer

Humanities/Social Sciences Elective-See list on page 79			3	0	3
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Business Administration: General Certificate Program (C25120M)

Title			Class/Lab/Credit		
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I. Major Courses

BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law I	3	0	3
CIS	110	Introduction to Computers	2	2	3
MKT	120	Principles of Marketing	3	0	3

III. Concentration

MKT	227	Marketing Applications	3	0	3
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V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 16

Recommended Semester Schedule**First Year-Fall**

ACA	115	Success and Study Skills	0	2	1
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3

First Year-Spring

MKT	120	Principles of Marketing	3	0	3
MKT	227	Marketing Applications	3	0	3

Business Administration

Concentration: Operations Management

A251200(Associate Degree) C251200 (Certificate)

Operations Management is a concentration under the curriculum title of Business Administration. This curriculum is designed to educate individuals in the technical and managerial aspects of operations for manufacturing and service industries.

Emphasized are analytical reasoning, problem solving and continuous improvement concepts required in today's dynamic business and industry environments. Concepts include quality, productivity, organizational effectiveness, financial analysis and the management of human, physical and information resources.

Graduates should qualify for leadership positions or enhance their professional skills in supervision, team leadership, operations planning, quality assurance, manufacturing and service management, logistics/distribution, health and safety, human resources management and inventory/materials management.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences					
II. Major Courses					
ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law I	3	0	3
BUS	137	Principles of Management	3	0	3
CIS	110	Introduction to Computers	2	2	3
ECO	251	Principles of Microeconomics	3	0	3
MKT	120	Principles of Marketing	3	0	3
III. Concentration					
ISC	121	Environmental Health & Safety	3	0	3
ISC	130	Introduction to Quality Control	3	0	3
ISC	210	Operation & Production Planning	3	0	3
OMT	112	Materials Management	3	0	3
OMT	260	Issues in Operations Management	3	0	3
IV. Other Major Courses (Take 12 credits from this list.)					
BUS	135	Principles of Supervision	3	0	3
BUS	153	Human Resource Management	3	0	3
BUS	225	Business Finance	2	2	3
BUS	240	Business Ethics	3	0	3
CTS	130	Spreadsheets	2	2	3
MKT	223	Customer Service	3	0	3
OST	136	Word Processing	2	2	3
OST	286	Professional Development	3	0	3
WBL	111	Work-Based Learning I	0	10	1

WBL	121	Work-Based Learning II	0	10	1
WBL	131	Work-Based Learning III	0	10	1

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 65

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3
ISC	121	Environmental Health & Safety	3	0	3
MKT	223	Customer Service	3	0	3

First Year-Spring

BUS	115	Business Law	3	0	3
ISC	130	Introduction to Quality Control	3	0	3
MKT	120	Principles of Marketing	3	0	3
OMT	112	Materials Management	3	0	3
Humanities Elective-See list on page 76			3	0	3

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
PSY	150	General Psychology	3	0	3

Second Year-Fall

ACC	120	Principles of Financial Accounting	3	2	4
BUS	137	Principles of Management	3	0	3
CTS	130	Spreadsheets	2	2	3
ECO	251	Principles of Microeconomics	3	0	3

Second Year-Spring

ISC	210	Operations and Production Planning	3	0	3
MAT	143	Quantitative Literacy	2	2	3
OST	136	Word Processing	2	2	3
OST	286	Professional Development	3	0	3

Second Year-Summer

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
OMT	260	Issues in Operations Management	3	0	3

Business Administration: Operations Management Certificate Program (C25120O)

Title	Class/Lab/Credit
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I. Major Courses

BUS	137	Principles of Management	3	0	3
CIS	110	Introduction to Computers	2	2	3

II. Concentration

ISC	121	Environmental Health & Safety	3	0	3
ISC	130	Introduction to Quality Control	3	0	3
ISC	210	Operation & Production Planning	3	0	3

III. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 16***Recommended Semester Schedule*****First Year-Fall**

ACA	115	Success and Study Skills	0	2	1
BUS	137	Principles of Management	3	0	3
ISC	121	Environmental Health & Safety	3	0	3

First Year-Spring

CIS	110	Introduction to Computers	2	2	3
ISC	130	Introduction to Quality Control	3	0	3
ISC	210	Operation & Production Planning	3	0	3

College Transfer - Associate In Arts Program

A10100 (Associate Degree)

This program is designed for students who intend to transfer to a four-year college or university. The student may complete course work equivalent to the first two years of study required for a bachelor's degree. Unless otherwise indicated, classes in this program satisfy the articulation agreement with colleges in the University of North Carolina System and are eligible for transfer to four-year degree programs, provided all other requirements for transfer are satisfied.

The curriculum in the College Transfer/Liberal Arts program is designed to meet students needs. It includes courses in English, humanities/fine arts, foreign languages, mathematics, science, social sciences, and physical education.

The Associate in Arts degree (A.A.) is awarded upon completion of program requirements. Graduates usually transfer to a senior insitution with junior year status. Follow up studies show that community college transfer students are generally successful in their studies at senior institutions.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Requirements. 45 shc required

English Composition (6 semester hours)

ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

Humanities/Communications (9 semester hours)

Take 3 credits

COM	231	Public Speaking	3	0	3
COM	120	Intro to Interpersonal Communication	3	0	3

Take 3 credits

ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3

Take 3 credits

ART	111	Art Appreciation	3	0	3
DRA	111	Theater Appreciation	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
MUS	110	Music Appreciation	3	0	3

Social/Behavioral Sciences (9 semester hours)

Select one history course:

HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3

Take 2 additional courses from the following:

ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3

POL	120	American Government	3	0	3
PSY	150	General Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3

Natural Science and Math (8 semester hours)

Select one science course:

BIO	111	General Biology I	3	3	4
CHM	151	General Chemistry I	3	3	4
GEL	111	Introduction to Geology	3	2	4

Select one math courses:

MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods	3	2	4
MAT	171	Precalculus Algebra	3	2	4

II. Additional General Education

Take 3 groups

Take 3 credits:

CIS	110	Introduction to Computers	3	0	3
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Take 3 credits:

MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	2	4
MAT	171	Pre-Calculus Algebra	3	2	4
MAT	172	Pre-Calculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4

Take 8 credits

ART	111	Art Appreciation	3	0	3
ASL	111	Elementary ASL I	3	0	3
ASL	112	Elementary ASL II	3	0	3
AST	151	General Astronomy I	3	0	3
AST	151A	General Astronomy I Lab	0	2	1
AST	152	General Astronomy II	3	0	3
AST	152A	General Astronomy II Lab	0	2	1
BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1
CHM	132	Organic and Biochemistry	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
CIS	115	Intro. to Prog. & Logic	3	0	3
COM	110	Introduction to Communications	3	0	3
COM	120	Introduction to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3
DRA	111	Theatre Appreciation	3	0	3
DRA	126	Storytelling	3	0	3
ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
ENG	114	Prof. Research and Reporting	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
FRE	111	Elementary French I	3	0	3
FRE	112	Elementary French II	3	0	3
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3

HIS	132	American History II	3	0	3
HUM	110	Technology and Society	3	0	3
HUM	115	Critical Thinking	3	0	3
HUM	120	Cultural Studies	3	0	3
HUM	122	Southern Culture	3	0	3
MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	2	4
MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4
MAT	273	Calculus III	3	2	4
MUS	110	Music Appreciation	3	0	3
MUS	210	History of Rock Music	3	0	3
PHI	210	History of Philosophy	3	0	3
PHI	240	Intro. to Ethics	3	0	3
PHY	110	Conceptual Physics	3	0	3
PHY	110A	Conceptual Physics Lab	0	2	1
PHY	151	College Physics I	3	2	4
PHY	152	College Physics II	3	2	4
PHY	251	General Physics I	3	3	4
PHY	252	General Physics II	3	3	4
POL	120	American Government	3	0	3
POL	210	Comparative Government	3	0	3
PSY	150	General Psychology	3	0	3
PSY	239	Psychology of Personality	3	0	3
PSY	241	Developmental Psychology	3	0	3
PSY	281	Abnormal Psychology	3	0	3
REL	110	World Religions	3	0	3
REL	211	Intro. to Old Testament	3	0	3
REL	212	Intro. to New Testament	3	0	3
SOC	210	Intro. to Sociology	3	0	3
SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3
SOC	225	Social Diversity	3	0	3
SPA	111	Elementary Spanish I	3	0	3
SPA	112	Elementary Spanish II	3	0	3
SPA	211	Intermediate Spanish I	3	0	3
SPA	212	Intermediate Spanish II	3	0	3

III. Other Requirements (15 semester hours)

Local MTCC Requirements

Take:

ACA	122	College Transfer Success	1	0	1
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Take one course:

HEA	110	Personal Health/Wellness	3	0	3
PED	110	Fit and Well for Life	1	2	2

Take 12 credits:

ACC	120	Principles of Financial Accounting I	3	2	4
ACC	121	Principles of Financial Accounting II	3	2	4
ART	111	Art Appreciation	3	0	3
ART	121	Two-Dimensional Design	0	6	3
ART	171	Digital Design I	0	6	3
ART	275	Introduction to Graphic Design	0	6	3
ASL	111	Elementary ASL I	3	0	3
ASL	112	Elementary ASL II	3	0	3
ASL	181	ASL Lab I	0	2	1

ASL	182	ASL Lab II	0	2	1
AST	151	General Astronomy I	3	0	3
AST	151A	General Astronomy I Lab	0	2	1
AST	152	General Astronomy II	3	0	3
AST	152A	General Astronomy II Lab	0	2	1
BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
BIO	155	Nutrition	3	0	3
BIO	163	Basic Anatomy and Physiology	4	2	5
BIO	168	Anatomy and Physiology I	3	3	4
BIO	169	Anatomy and Physiology II	3	3	4
BIO	175	General Microbiology	2	2	3
BIO	275	Microbiology	3	3	4
BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law	3	0	3
BUS	137	Principles of Management	3	0	3
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1
CHM	132	Organic and Biochemistry	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
CJC	111	Introduction to Criminal Justice	3	0	3
CJC	121	Law Enforcement Operations	3	0	3
CJC	141	Corrections	3	0	3
CIS	115	Introduction to Programming and Logic	2	3	3
COM	110	Introduction to Communication	3	0	3
COM	120	Introduction to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3
CSC	134	C++ Programming	2	3	3
CSC	151	JAVA Programming	2	3	3
CTS	115	Info. Systems Business Concepts	3	0	3
DRA	111	Theatre Appreciation	3	0	3
DRA	126	Storytelling	3	0	3
ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
EDU	131	Child, Family and Community	3	0	3
EDU	144	Child Development I	3	0	3
EDU	145	Child Development II	3	0	3
EDU	216	Foundations of Education	3	0	3
EDU	221	Children with Exceptionalities	3	0	3
EGR	150	Introduction to Engineering	1	2	2
EGR	220	Engineering Statistics	3	0	3
ENG	114	Prof. Research & Reporting	3	0	3
ENG	125	Creative Writing I	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
ENG	271	Contemporary Literature	3	0	3
ENG	273	African-American Literature	3	0	3
FRE	111	Elementary French I	3	0	3
FRE	112	Elementary French II	3	0	3
HEA	110	Personal Health/Wellness	3	0	3
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3

HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
HUM	110	Technology & Society	3	0	3
HUM	115	Critical Thinking	3	0	3
HUM	120	Cultural Studies	3	0	3
HUM	122	Southern Culture	3	0	3
MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	2	4
MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4
MAT	273	Calculus III	3	2	4
MAT	280	Linear Algebra	2	2	3
MAT	285	Differential Equations	2	2	3
MUS	110	Music Appreciation	3	0	3
MUS	210	History of Rock Music	3	0	3
PED	110	Fit and Well for Life	1	2	2
PED	111	Physical Fitness I	0	3	1
PED	113	Aerobics I	0	3	1
PED	117	Weight Training I	0	3	1
PED	120	Walking For Fitness	0	3	1
PED	128	Golf-Beginning	0	2	1
PED	130	Tennis-Beginning	0	2	1
PED	139	Bowling-Beginning	0	2	1
PED	152	Swimming-Beginning	0	2	1
PED	155	Water Aerobics	0	2	1
PED	174	Wilderness Pursuits	0	2	1
PED	219	Disc Golf	0	2	1
PHI	210	History of Philosophy	3	0	3
PHI	240	Introduction to Ethics	3	0	3
PHY	110	Conceptual Physics	3	0	3
PHY	110A	Conceptual Physics Lab	0	2	1
PHY	151	College Physics I	3	2	4
PHY	152	College Physics II	3	2	4
PHY	251	General Physics I	3	3	4
PHY	252	General Physics II	3	3	4
POL	120	American Government	3	0	3
POL	130	State & Local Government	3	0	3
POL	210	Comparative Government	3	0	3
PSY	150	Intro. to Psychology	3	0	3
PSY	239	Psychology of Personality	3	0	3
PSY	241	Developmental Psychology	3	0	3
PSY	281	Abnormal Psychology	3	0	3
REL	110	World Religions	3	0	3
REL	211	Intro. to Old Testament	3	0	3
REL	212	Intro. to New Testament	3	0	3
SOC	210	Intro. to Sociology	3	0	3
SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3
SOC	225	Social Diversity	3	0	3
SOC	242	Sociology of Deviance	3	0	3
SPA	111	Elementary Spanish I	3	0	3
SPA	112	Elementary Spanish II	3	0	3
SPA	181	Spanish Lab I	0	2	1
SPA	182	Spanish Lab II	0	2	1
SPA	211	Intermediate Spanish I	3	0	3

SPA	212	Intermediate Spanish II	3	0	3
SPA	281	Spanish Lab III	0	2	1
SPA	282	Spanish Lab IV	0	2	1

Total Credits: 60-61

College Transfer - Associate In Science Program

(Associate Degree A10400)

This program is designed for students who intend to transfer to a four-year college or university. The student may complete course work equivalent to the first two years of study required for a bachelor's degree. Unless otherwise indicated, classes in this program satisfy the articulation agreement with colleges in the University of North Carolina System and are eligible for transfer to four-year degree programs, provided all other requirements for transfer are satisfied.

The Associate in Science degree (A.S.) is awarded upon completion of program requirements. Graduates usually transfer to a senior institution with junior year status. Follow up studies show that community college transfer students are generally successful in their studies at senior institutions.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Requirements.

Natural Science

Take 1 of 3 Groups

Group 1

Take 8 credits from:

BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4

Group 2

Take 8 credits from:

CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4

Group 3

Take 8 credits from:

PHY	151	College Physics I	3	2	4
PHY	152	College Physics II	3	2	4

Math

Take 8 credits from:

MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	263	Brief Calculus	3	2	4
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4

Required Courses (6 semester hours)

ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

Humanities/Communications (6 semester hours)

Select one course from the following:

COM	120	Intro to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3

Select one course from the following:

ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3

ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3

Social/Behavioral Sciences (6 semester hours)

Select one history course:

HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3

Select one of the following:

ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
POL	120	American Government	3	0	3
PSY	150	General Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3

II. Additional General Education (11 semester hours)

Take 2 Groups

Take 3 credits:

CIS	110	Intro to Computers	2	2	3
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Take 8 credits:

ART	111	Art Appreciation	3	0	3
ASL	111	Elementary ASL I	3	0	3
ASL	112	Elementary ASL II	3	0	3
AST	151	General Astronomy I	3	0	3
AST	151A	General Astronomy I Lab	0	2	1
AST	152	General Astronomy II	3	0	3
AST	152A	General Astronomy II Lab	0	2	1
BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1
CHM	132	Organic and Biochemistry	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
CIS	115	Introduction to Prog. & Logic	2	3	3
COM	110	Introduction to Communications	3	0	3
COM	120	Intro. to Interpersonal Communications	3	0	3
COM	231	Public Speaking	3	0	3
DRA	111	Theatre Appreciation	3	0	3
DRA	126	Storytelling	3	0	3
ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
ENG	114	Prof. Research & Reporting	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
FRE	111	Elementary French I	3	0	3
FRE	112	Elementary French II	3	0	3
GEL	111	Introduction to Geology	3	2	4
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
HUM	110	Technology & Society	3	0	3

HUM	115	Critical Thinking	3	0	3
HUM	120	Cultural Studies	3	0	3
HUM	122	Southern Culture	3	0	3
MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	2	4
MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4
MAT	273	Calculus III	3	2	4
MUS	110	Music Appreciation	3	0	3
MUS	210	History of Rock Music	3	0	3
PHI	210	History of Philosophy	3	0	3
PHI	240	Intro. to Ethics	3	0	3
PHY	110	Conceptual Physics	3	0	3
PHY	110A	Conceptual Physics Lab	0	2	1
PHY	151	College Physics I	3	2	4
PHY	152	College Physics II	3	2	4
PHY	251	General Physics I	3	3	4
PHY	252	General Physics II	3	3	4
POL	120	American Government	3	0	3
POL	210	Comparative Government	3	0	3
PSY	150	General Psychology	3	0	3
PSY	239	Psychology of Personality	3	0	3
PSY	241	Developmental Psychology	3	0	3
PSY	281	Abnormal Psychology	3	0	3
REL	110	World Religions	3	0	3
REL	211	Intro. to Old Testament	3	0	3
REL	212	Intro. to New Testament	3	0	3
SOC	210	Intro. to Sociology	3	0	3
SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3
SOC	225	Social Diversity	3	0	3
SPA	111	Elementary Spanish I	3	0	3
SPA	112	Elementary Spanish II	3	0	3
SPA	211	Intermediate Spanish I	3	0	3
SPA	212	Intermediate Spanish II	3	0	3

III. Other Requirements (15 semester hours)

Local MTCC Requirements (3 semester hours)

Take:

ACA	122	College Transfer Success	1	0	1
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Take one course:

HEA	110	Personal Health/Wellness	3	0	3
PED	110	Fit and Well for Life	1	2	2

Select 12 additional semester hours from the following list:

ACC	120	Principles of Financial Accounting I	3	2	4
ACC	121	Principles of Financial Accounting II	3	2	4
ART	111	Art Appreciation	3	0	3
ART	121	Two-Dimensional Design	0	6	3
ART	171	Digital Design I	0	6	3
ART	275	Introduction to Graphic Design	0	6	3
ASL	111	Elementary ASL I	3	0	3
ASL	112	Elementary ASL II	3	0	3
ASL	181	ASL Lab I	0	2	1
ASL	182	ASL Lab II	0	2	1
AST	151	General Astronomy I	3	0	3

AST	151A	General Astronomy I Lab	0	2	1
AST	152	General Astronomy II	3	0	3
AST	152A	General Astronomy II Lab	0	2	1
BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
BIO	155	Nutrition	3	0	3
BIO	163	Basic Anatomy and Physiology	4	2	5
BIO	168	Anatomy and Physiology I	3	3	4
BIO	169	Anatomy and Physiology II	3	3	4
BIO	175	General Microbiology	2	2	4
BIO	275	Microbiology	3	3	4
BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law I	3	0	3
BUS	137	Principles of Management	3	0	3
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1
CHM	132	Organic and Biochemistry	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
CIS	115	Introduction to Programming and Logic	2	3	3
CJC	111	Introduction to Criminal Justice	3	0	3
CJC	121	Law Enforcement Operations	3	0	3
CJC	141	Corrections	3	0	3
COM	120	Introduction to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3
CSC	134	C++ Programming	2	3	3
CSC	151	JAVA Programming	2	3	3
CTS	115	Info. Systems Business Concepts	3	0	3
DRA	111	Theatre Appreciation	3	0	3
DRA	126	Storytelling	3	0	3
ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
EDU	131	Child, Family and Community	3	0	3
EDU	144	Child Development I	3	0	3
EDU	145	Child Development II	3	0	3
EDU	216	Foundations of Education	3	0	3
EDU	221	Children with Exceptionalities	3	0	3
EGR	150	Intro. to Engineering	1	2	2
EGR	220	Engineering Statistics	1	2	2
ENG	114	Prof. Research & Reporting	3	0	3
ENG	125	Creative Writing	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
ENG	271	Contemporary Literature	3	0	3
ENG	273	African-American Literature	3	0	3
FRE	111	Elementary French I	3	0	3
FRE	112	Elementary French II	3	0	3
GEL	111	Geology	3	2	4
HEA	110	Personal Health/Wellness	3	0	3
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
HUM	110	Technology & Society	3	0	3
HUM	115	Critical Thinking	3	0	3
HUM	120	Cultural Studies	3	0	3

HUM	122	Southern Culture	3	0	3
MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	0	3
MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4
MAT	273	Calculus III	3	2	4
MAT	280	Linear Algebra	2	2	3
MAT	285	Differential Equations	2	2	3
MUS	110	Music Appreciation	3	0	3
MUS	210	History of Rock Music	3	0	3
PED	111	Physical Fitness I	0	3	1
PED	113	Aerobics I	0	3	1
PED	117	Weight Training I	0	3	1
PED	120	Walking for Fitness	0	3	1
PED	128	Golf-Beginning	0	2	1
PED	130	Tennis-Beginning	0	2	1
PED	139	Bowling-Beginning	0	2	1
PED	152	Swimming-Beginning	0	2	1
PED	155	Water Aerobics	0	3	1
PED	174	Wilderness Pursuits	0	2	1
PED	219	Disc Golf	0	2	1
PHI	210	History of Philosophy	3	0	3
PHI	240	Intro. to Ethics	3	0	3
PHY	110	Conceptual Physics	3	0	3
PHY	110A	Conceptual Physics Lab	0	2	1
PHY	151	College Physics I	3	2	4
PHY	152	College Physics II	3	2	4
PHY	251	General Physics I	3	3	4
PHY	252	General Physics II	3	3	4
POL	120	American Government	3	0	3
POL	130	State & Local Government	3	0	3
POL	210	Comparative Government	3	0	3
PSY	150	Intro. to Psychology	3	0	3
PSY	239	Psychology of Personality	3	0	3
PSY	241	Developmental Psychology	3	0	3
PSY	281	Abnormal Psychology	3	0	3
REL	110	World Religions	3	0	3
REL	211	Intro. to Old Testament	3	0	3
REL	212	Intro. to New Testament	3	0	3
SOC	210	Intro. to Sociology	3	0	3
SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3
SOC	225	Social Diversity	3	0	3
SOC	242	Sociology of Deviance	3	0	3
SPA	111	Elementary Spanish I	3	0	3
SPA	112	Elementary Spanish II	3	0	3
SPA	181	Spanish Lab I	0	2	1
SPA	182	Spanish Lab II	0	2	1
SPA	211	Intermediate Spanish I	3	0	3
SPA	212	Intermediate Spanish II	3	0	3
SPA	281	Spanish Lab III	0	2	1
SPA	282	Spanish Lab IV	0	2	1

Total Credits: 60

Computer Integrated Machining

A50210 (Associate) D50210 (Diploma) C50210C, C50210D, C50210M (Certificates)

This 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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry	2	2	3
Select one course each from page 79:					
Humanities/Fine Arts			3	0	3
Social and Behavioral Science			3	0	3
II. Major Courses					
BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	141	Machining Applications I	2	6	4
MAC	142	Machining Applications II	2	6	4
III. Other Major Requirements					
Take 8 credits					
ISC	112	Industrial Safety	2	0	2
MEC	142	Physical Metallurgy	1	2	2
PLA	110	Introduction to Plastics	2	0	2
WLD	112	Basic Welding Processes	1	3	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	113	Work-Based Learning I	0	30	3
WBL	114	Work-Based Learning I	0	40	4
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	123	Work-Based Learning II	0	30	3
WBL	124	Work-Based Learning II	0	40	4
WBL	131	Work-Based Learning III	0	10	1

WBL	132	Work-Based Learning III	0	20	2
WBL	133	Work-Based Learning III	0	30	3
WBL	134	Work-Based Learning III	0	40	4
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
WBL	213	Work-Based Learning IV	0	30	3
WBL	214	Work-Based Learning IV	0	40	4

Take 29 credits

CIS	110	Introduction to Computers	2	2	3
DFT	119	Basic CAD	1	2	2
MAC	114	Intro to Metrology	2	0	2
MAC	122	CNC Turning	1	3	2
MAC	124	CNC Milling	1	3	2
MAC	143	Machining Applications III	2	6	4
MAC	151	Machining Calculations	1	2	2
MAC	152	Advanced Machining Calculations	1	2	2
MAC	222	Advanced CNC Turning	1	3	2
MAC	224	Advanced CNC Milling	1	3	2
MAC	231	CNC Graphics Prog: Turning	1	4	3
MAC	232	CNC Graphics Prog: Milling	1	4	3
MAC	241	Jigs & Fixtures I	2	6	4

IV. Other Required Courses

ACA	115	Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 66

Recommended Semester Schedule

First Year-Fall

ACA	115	Study Skills	0	2	1
BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	141	Machining Applications I	2	6	4
MAC	151	Machining Calculations	1	2	2
MAC	114	Intro to Metallurgy	2	0	2

First Year-Spring

CIS	110	Introduction to Computers	2	2	3
DFT	119	Basic CAD	1	2	2
MAC	122	CNC Turning	1	3	2
MAC	124	CNC Milling	1	3	2
MAC	142	Machining Applications II	2	6	4
PLA	110	Introduction to Plastics	2	0	2

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry	2	2	3
		Humanities/Fine Arts Elective- see list on page 79	3	0	3

Second Year-Fall

ISC	112	Industrial Safety	2	0	2
MAC	143	Machining Applications III	2	6	4
MAC	222	Advanced CNC Turning	1	3	2

MAC	231	CNC Graphics Prog.: Turning	1	4	3
MEC	142	Physical Metallurgy	1	2	2
WLD	112	Basic Welding Processes	1	3	2

Second Year-Spring

ACA	220	Professional Transition	1	0	1
COM	120	Interpersonal Communications	3	0	3
MAC	152	Advanced Machining Calculations	1	2	2
MAC	224	Advanced CNC Milling	1	3	2
MAC	232	CNC Graphics Prog.: Milling	1	4	3
Social/Behavioral Science Elective-see list on page 79			3	0	3

Note: WBL 111, 112, 113, 114, 121, 122, 123, 124, 131, 132, 133, 134, 211, 212, 213, 214 may count for any of the following: MAC 151, MAC 247, DFT 119, MAC 122, MAC 124, PLA 110, WLD 112, MAC 222, MAC 231, MAC 143, MEC 142, MAC 152, MAC 224, MAC 232

Computer Integrated Machining Diploma Program (D50210)

Title			Class/Lab/Credit		
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I. General Education Courses

ENG	101	Applied Communications	3	0	3
MAT	110	Mathematical Measurement and Literacy	2	2	3

II. Major Courses

BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	141	Machining Applications I	2	6	4
MAC	142	Machining Applications II	2	6	4

III. Other Major Requirements

Take 19 credits

CIS	110	Introduction to Computers	2	2	3
ISC	112	Industrial Safety	2	0	2
MAC	124	CNC Milling	1	3	2
MAC	151	Machining Calculations	1	2	2
MAC	231	CAM: CNC Turning	1	4	3
MAC	232	CNC Graphics Prog: Milling	1	4	3
MEC	142	Physical Metallurgy	1	2	2
PLA	110	Introduction to Plastics	2	0	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 39

Recommended Semester Schedule

First Year-Fall

BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	141	Machining Applications I	2	6	4
ACA	115	Success and Study Skills	0	2	1

First Year-Spring

MAC	124	CNC Milling	1	3	2
MAC	142	Machining Applications II	2	6	4
MAC	232	CNC Graphics Prog: Milling	1	4	3
PLA	110	Introduction to Plastics	2	0	2

First Year-Summer

CIS	110	Introduction to Computers	2	2	3
ENG	101	Applied Communications	3	0	3
MAT	110	Mathematical Measurement and Literacy	2	2	3

Second Year-Fall

ACA	220	Professional Transition	1	0	1
ISC	112	Industrial Safety	2	0	2
MAC	151	Machining Calculations	1	2	2
MAC	231	CAM: CNC Turning	1	4	3
MEC	142	Physical Metallurgy	1	2	2

CNC Machine Operator Certificate (C50210C)

Title	Class/Lab/Credit
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I. Major Courses

BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	122	CNC Turning	1	3	2
MAC	124	CNC Milling	1	3	2
MAC	141	Machine Applications I	2	6	4
MAC	142	Machine Applications II	2	6	4

Total Credits: 16

Recommended Semester Schedule

First Year-Fall

BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	141	Machine Applications I	2	6	4

First Year-Spring

MAC	122	CNC Turning	1	3	2
MAC	124	CNC Milling	1	3	2
MAC	142	Machine Applications II	2	6	4

CADCAM Certificate (C50210D)

Title			Class/Lab/Credit		
I. Major Courses					
BPR	111	Print Reading	1	2	2
MAC	141	Machine Applications I	2	6	4
MAC	142	Machine Applications II	2	6	4
II. Other Major Courses					
MAC	231	CNC Graphics Prog.: Turning	1	4	3
MAC	232	CNC Graphics Prog: Milling	1	4	3
Total Credits: 16					

Recommended Semester Schedule

First Year-Fall					
BPR	111	Print Reading	1	2	2
MAC	141	Machine Applications I	2	6	4
MAC	231	CNC Graphics Prog.: Turning	1	4	3
First Year-Spring					
MAC	142	Machine Applications II	2	6	4
MAC	232	CNC Graphics Prog: Milling	1	4	3

Manual Machine Operator (C50210M)

Title			Class/Lab/Credit		
I. Major Courses					
BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	141	Machine Applications I	2	6	4
MAC	142	Machine Applications II	2	6	4
II. Other Major Courses					
MAC	151	Machine Calculations I	1	2	2
MAC	152	Machine Calculations II	1	2	2
MEC	142	Physical Metallurgy	1	2	2
Total Credits: 18					

Recommended Semester Schedule

First Year-Fall					
BPR	111	Print Reading	1	2	2
MAC	121	Introduction to CNC	2	0	2
MAC	141	Machine Applications I	2	6	4
MAC	151	Machine Calculations I	1	2	2
First Year-Spring					
MAC	142	Machine Applications II	2	6	4
MAC	152	Machine Calculations II	1	2	2
MEC	142	Physical Metallurgy	1	2	2

Cosmetology

A55140 (Associate Degree) D55140 (Diploma) C55140 (Certificate)

This 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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences					
II. Major Courses					
COS	111	Cosmetology Concepts I	4	0	4
COS	112	Salon I	0	24	8
COS	113	Cosmetology Concepts II	4	0	4
COS	114	Salon II	0	24	8
COS	115	Cosmetology Concepts III	4	0	4
COS	116	Salon III	0	12	4
COS	117	Cosmetology Concepts IV	2	0	2
III. Other Major Courses					
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	4	0	3
COS	118	Salon IV	0	21	7
CTS	115	Information System Business Concepts	3	0	3
IV. Other Required Courses					
ACA	115	Success and Study Skills	0	2	1

Total Credits: 66

Recommended Semester Schedule

DAY AND NIGHT CLASS

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
COS	111	Cosmetology Concepts I	4	0	4
COS	112	Salon I	0	24	8
MAT	143	Quantitative Literacy	2	2	3

First Year-Spring

COS	113	Cosmetology Concepts II	4	0	4
COS	114	Salon II	0	24	8
ENG	111	Writing and Inquiry	3	0	3

First Year-Summer

CIS	110	Introduction to Computers	4	0	3
COS	115	Cosmetology Concepts III	4	0	4
COS	116	Salon III	0	12	4
Humanities Elective-See list on page 79			3	0	3

Second Year-Fall

BUS	110	Introduction to Business	3	0	3
COS	117	Cosmetology Concepts IV	2	0	2
COS	118	Salon IV	0	21	7
Social Sciences Elective-See list on page 79			3	0	3

Second Year-Spring

COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
CTS	115	Information Systems Business Concepts	3	0	3

Cosmetology Diploma Program (D55140)

Title			Class/Lab/Credit		
I. General Education Courses					
ENG	101	Applied Communications I	3	0	3
PSY	150	General Psychology	3	0	3
II. Major Courses					
COS	111	Cosmetology Concepts I	4	0	4
COS	112	Salon I	0	24	8
COS	113	Cosmetology Concepts II	4	0	4
COS	114	Salon II	0	24	8
COS	115	Cosmetology Concepts III	4	0	4
COS	116	Salon III	0	12	4
COS	117	Cosmetology Concepts IV	2	0	2
III. Other Major Courses					
COS	118	Salon IV	0	21	7

Total Credits: 47***Recommended Semester Schedule*****DAY AND NIGHT CLASS****First Year-Fall**

COS	111	Cosmetology Concepts I	4	0	4
COS	112	Salon I	0	24	8
PSY	150	General Psychology	3	0	3

First Year-Spring

COS	113	Cosmetology Concepts II	4	0	4
COS	114	Salon II	0	24	8
ENG	101	Applied Communications I	3	0	3

First Year-Summer

COS	115	Cosmetology Concepts III	4	0	4
COS	116	Salon III	0	12	4

Second Year-Fall

COS	117	Cosmetology Concepts IV	2	0	2
COS	118	Salon IV	0	21	7

Cosmetology Certificate Program (C55140)

Title	Class/Lab/Credit
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I. Major Courses

COS	111	Cosmetology Concepts I	4	0	4
COS	112	Salon I	0	24	8
COS	113	Cosmetology Concepts II	4	0	4
COS	114	Salon II	0	24	8
COS	115	Cosmetology Concepts III	4	0	4
COS	116	Salon III	0	12	4
COS	117	Cosmetology Concepts IV	2	0	2

Total Credits: 34

*COS 118 is required for the State Board Certificate and the 1500 hour requirement.

Recommended Semester Schedule**DAY AND NIGHT CLASS****First Year-Fall**

COS	111	Cosmetology Concepts I	4	0	4
COS	112	Salon I	0	24	8

First Year-Spring

COS	113	Cosmetology Concepts II	4	0	4
COS	114	Salon II	0	24	8

First Year-Summer

COS	115	Cosmetology Concepts III	4	0	4
COS	116	Salon III	0	12	4

Second Year-Fall

COS	117	Cosmetology Concepts IV	2	0	2
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Cosmetology-Esthetics Technology

C55230 (Certificate)

This 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 qualified for employment in beauty and cosmetic/skin care salons, as a platform artist, and in related businesses.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Students may enter this curriculum at the start of any semester. Availability of this curriculum will be determined by a sufficient number of students enrolling in this program.

Title			Class/Lab/Credit		
I. Major Courses					
COS	119	Esthetics Concepts I	2	0	2
COS	120	Esthetics Salon I	0	18	6
COS	125	Esthetics Concepts II	2	0	2
COS	126	Esthetics Salon II	0	18	6

Total Credits: 16

Recommended Semester Schedule

Student Starting in Fall Semester:

Fall

COS	119	Esthetics Concepts I	2	0	2
COS	120	Esthetics Salon I	0	18	6

Spring

COS	125	Esthetics Concepts II	2	0	2
COS	126	Esthetics Salon II	0	18	6

Student Starting in Spring Semester:

Spring

COS	119	Esthetics Concepts I	2	0	2
COS	120	Esthetics Salon I	0	18	6

Summer

COS	125A	Esthetics Concepts II A	1	0	1
COS	126A	Esthetics Salon II A	0	9	3

Fall

COS	125B	Esthetics Concepts II B	1	0	1
COS	126B	Esthetics Salon II B	0	9	3

Student Starting in Summer Semester:

Summer

COS	119A	Esthetics Concepts I A	1	0	1
COS	120A	Esthetics Salon I A	0	9	3

Fall

COS	119B	Esthetics Concepts I B *	1	0	1
COS	120B	Esthetics Salon I B*	0	9	3
COS	125A	Esthetics Concepts II A **	1	0	1
COS	126A	Esthetics Salon II A **	0	9	3

Spring

COS	125B	Esthetics Concepts II B*	1	0	1
COS	126B	Esthetics Salon II B*	0	9	3

*First 8 weeks only

**Second 8 weeks only

Students may enter this curriculum at the start of any semester. Availability of this curriculum will be determined by a sufficient number of students enrolling in this program.

Cosmetology - Manicurist/Nail Technology

C55400 (Certificate)

This 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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

**This curriculum was designed to be taken during the fall or spring semester. No classes are offered during the summer semester. Availability of this curriculum will be determined by a sufficient number of students enrolling in this program. COS 121 will be offered during the first 8 weeks of the semester; COS 122 will be offered during the second 8 weeks of the semester.*

Title			Class/Lab/Credit		
I. Major Courses					
COS	121	Manicure/Nail Technology I	4	6	6
COS	222	Manicure/Nail Technology II	4	6	6
II. Other Required Hours					
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3

Total Credits: 18

Recommended Semester Schedule

First Year-Fall* or Spring*

BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3
COS	121	Manicure/Nail Technology I	4	6	6
COS	222	Manicure/Nail Technology II	4	6	6

Cosmetology- Instructor

C55160 (Certificate)

This 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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

**This curriculum is offered on an individual basis in fall and spring semester, based on student demand and waiting list.*

Title			Class/Lab/Credit		
I. Major Courses					
COS	271	Instructor Concepts I	5	0	5
COS	272	Instructor Practicum I	0	21	7
COS	273	Instructor Concepts II	5	0	5
COS	274	Instructor Practicum II	0	21	7

Total Credits: 24

Recommended Semester Schedule

First Year-Fall, Spring

COS	271	Instructor Concepts I**	5	0	5
and					
COS	272	Instructor Practicum I**	0	21	7
or					
COS	273	Instructor Concepts II**	5	0	5
and					
COS	274	Instructor Practicum II**	0	21	7

**This curriculum is offered on an individual basis in fall or spring semesters, based on student demand.*

***Students may select COS 271 and COS 272 or they may select COS 273 and COS 274 during any one semester. COS 271 and COS 272 are required before COS 273 and COS 274. COE 113 may also be taken.*

Cosmetology- Esthetics Instructor

C55270 (Certificate)

This curriculum provides a course of study covering the skills needed to teach the theory and practices of esthetics as required by the North Carolina State Board of Cosmetology.

Course work includes all phases of esthetics theory laboratory instruction.

Graduates should be prepared to take the North Carolina Cosmetology State Board Esthetics Instructor Licensing Exam and upon passing be qualified for employment in a cosmetology or esthetics school.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

**This curriculum is offered on an individual basis in any semester, based on student demand.*

Title			Class/Lab/Credit		
I. Major Courses					
COS	253	Esthetics Instructor I	6	15	11
COS	254	Esthetics Instructor II	6	15	11

Total Credits: 22

Recommended Semester Schedule

Student Starting in Fall Semester:

Fall

COS	253	Esthetics Instructor I	6	15	11
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Spring

COS	254	Esthetics Instructor II	6	15	11
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Student Starting in Spring Semester:

Spring

COS	253	Esthetics Instructor I	6	15	11
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Summer

COS	254A	Esthetics Instructor II A	3	8	6
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Fall

COS	254B	Esthetics Instructor II B	3	7	5
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Cyber Crime Technology

A55210 (Associate Degree) C55210A, C55210B (Certificates)

This curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals. Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes. Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

Title		Class/Lab/Credit			
I. General Education Courses					
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79					
II. Major Courses					
CCT	110	Intro to Cyber Crime	3	0	3
CCT	112	Ethics & High Technology	3	0	3
CCT	121	Computer Crime Investigation	3	2	4
CCT	231	Technology Crimes & Law	3	0	3
CCT	289	Capstone Project	1	6	3
III. Other Major Courses					
Take 2 groups:					
Take 6 hours from:					
CCT	240	Data Recovery Techniques	2	3	3
CCT	251	Network Vulnerables II	2	2	3
Take 36 hours from:					
CCT	285	Trends in Cyber Crime	2	2	3
CCT	250	Network Vulnerabilities I	2	2	3
CIS	110	Introduction to Computers	3	0	3
CSC	121	Python Programming	2	3	3
CSC	151	JAVA Programming	2	3	3
CTI	110	Web, Pqm, & Db Foundation	2	2	3
CTI	120	Network & Sec. Foundation	2	2	3
CTS	120	Hardware/Software Support	2	3	3
CTS	115	Info Systems Business Concepts	3	0	3
DBA	120	Database Programming I	2	2	3
NET	125	Introduction to Networks	1	4	3
SEC	160	Security Administration I	2	2	3
IV. Other Required Courses					
ACA	115	Success and Study Skills	0	2	1
Total Credits: 74					

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
CCT	110	Intro to Cyber Crime	3	0	3
CIS	110	Introduction to Computers	3	0	3
CTI	110	Web, Pqm, & Db Foundation	2	2	3
NET	125	Introduction to Networks	1	4	3

First Year-Spring

CCT	112	Ethics and High Technology	3	0	3
CCT	121	Computer Crime Invest	3	2	4
CTI	120	Network & Sec Foundation	2	2	3
CTS	120	Hardware/Software Support	2	3	3

First Year-Summer

COM	231	Public Speaking	3	0	3
CSC	121	Python Programming	2	3	3
Humanities Elective			3	0	3
Social Science Elective			3	0	3

Second Year-Fall

CCT	231	Technology Crimes & Law	3	0	3
CCT	250	Network Vulnerabilities	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3
SEC	160	Security Administration I	2	2	3

Second Year-Spring

CCT	240	Data Recovery Techniques	2	3	3
CCT	251	Network Vulnerabilities II	2	2	3
CCT	285	Trends in Cyber Crime	2	2	3
DBA	120	Database Programming I	2	2	3

Second Year-Summer

CCT	289	Capstone Project	1	6	3
CSC	151	Java Programming	2	3	3
ENG	111	Expository Writing	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Cyber Crime Technology Basic Certificate (C55210A)

Title	Class/Lab/Credit				
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I. Major Courses

CCT	110	Intro to Cyber Crime	3	0	3
CCT	112	Ethics & High Technology	3	0	3

II. Other Major Courses

CIS	110	Introduction to Computers	3	0	3
CTI	120	Network & Sec Foundation	2	2	3
CTS	120	Hardware/Software Support	2	3	3
NET	125	Introduction to Networks	1	4	3

Total Credits: 18

Recommended Semester Schedule

First Year Fall

CCT	110	Intro to Cyber Crime	3	0	3
CIS	110	Introduction to Computers	3	0	3
NET	125	Introduction to Networks	1	4	3

First Year Spring

CCT	112	Ethics & High Technology	3	0	3
CTI	120	Network & Sec Foundation	2	2	3
CTS	120	Hardware/Software Support	2	3	3

Cyber Crime Technology Advanced Certificate (C55210B)

<u>Title</u>		<u>Class/Lab/</u>			
<u>Credit</u>					

I. Major Courses

CCT	121	Computer Crime Investigation	3	2	4
CCT	231	Technology Crimes & Law	3	0	3

II. Other Major Courses

CSC	151	JAVA Programming	2	3	3
CTI	110	Web, Pgm, & Db Foundation	2	2	3
CTS	115	Info Systems Business Concepts	3	0	3
WEB	115	Web Markup & Scripting	2	2	3

Total Credits: 16

Recommended Semester Schedule

First Year Fall

CCT	231	Technology Crimes & Law	3	0	3
CTI	110	Web, Pgm, & Db Foundation	2	2	3
CTS	115	Info Systems Business Concepts	3	0	3

First Year Spring

CCT	121	Computer Crime Investigation	3	2	4
CSC	151	JAVA Programming	2	3	3

Elementary Education Residency Licensure

C55490 (Certificate) (*Pending SACSCOC Approval)

The Elementary Education Residency Certificate curriculum provides a course of study leading to the development of the general pedagogical competencies needed to become certified to teach by the North Carolina Department of Public Instruction. Course work includes learning theory, instructional/educational technology, diverse learners, school policies and procedures, expectations and responsibilities of educators, teaching strategies/methods for specific content/specialty areas, formative/summative assessment, data informed practice, and classroom organization/management to enhance learning. Graduates should meet general pedagogical competencies and demonstrate effective teaching practices. Additional requirements, such as pre-service training, passing the state required assessments, and the criteria included in the North Carolina Teacher Evaluation System, are required for licensure.

Certificate Program

Title	Class/Lab/Credit
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A. Core

Required Courses

EDU 270	Effective Instructional Environments	2	0	2
EDU 272	Technology, Data, and Assessment	2	3	3
EDU 277	Int. Curr. & Instr. Strat.: Math/Science	2	3	3
EDU 278	Int. Curr. & Instr. Strat.: Soc. Stu./ELA	2	3	3
EDU 279	Literacy Development and Instruction	3	3	4
EDU 283	Educator Preparation Practicum	2	3	3

Recommended Semester Schedule

First Year Fall

EDU 270	Effective Instructional Environments	2	0	2
EDU 272	Technology, Data, and Assessment	2	3	3
EDU 277	Int. Curr. & Instr. Strat.: Math/Science	2	3	3

First Year Spring

EDU 278	Int. Curr. & Instr. Strat.: Soc. Stu./ELA	2	3	3
EDU 279	Literacy Development and Instruction	3	3	4
EDU 283	Educator Preparation Practicum	2	3	3

Teaching/Training: Early Childhood Education

A55220C (Associate Degree) D55220C (Diploma)

C55220C (Certificate)

C55290C (Certificate-Infant Toddler Care) C55850 (Certificate- Early Childhood Administration)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

<u>Title</u>	<u>Class/Lab/Credit</u>
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I. General Education Courses

Take 2 Groups:

Group I: Take 6 credits

COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3

Group II: (Take 3 credits from each)

Humanities, Social/Behavioral Science and Natural Science/Math (see list on page 155)

II. Major Courses

Take 35 credits from:

EDU	119	Introduction to Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3
EDU	144	Child Development I	3	0	3
EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	151	Creative Activities	3	0	3
EDU	153	Health, Safety, Nutrition	3	0	3
EDU	221	Children with Exceptionalities	3	0	3
EDU	234	Infants, Toddlers, and Twos	3	0	3
EDU	280	Language & Literacy Experiences	3	0	3
EDU	284	Early Childhood Capstone	1	9	4

III. Other Major Courses (Must be selected from identified prefixes)

Take 15 credits:

CIS	110	Intro. to Computers	2	2	3
EDU	252	Math and Science Activities	3	0	3

EDU	261	Early Childhood Administration I	3	0	3
PSY	150	General Psychology	3	0	3
EDU	271	Educational Technology	2	2	3

Other Major Requirements:

Take 2 credits from:

EDU	184	Early Childhood Practicum	1	3	2
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IV. Other Required Courses

Take 1 credit:

ACA	115	Success and Study Skills	0	2	1
ACA	122	College Transfer Success	0	2	1

Total Credits: 68

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
or					
ACA	122	College Transfer Success	0	2	1
EDU	119	Introduction to Childhood Education	4	0	4
EDU	144	Child Development I	3	0	3
ENG	111	Expository Writing	3	0	3
Choose from the Natural Science/Math pick list on page 155			3	0	3 or 4 (Math)

First Year-Spring

EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3
EDU	184	Early Childhood Practicum	1	3	2
Choose from Humanities/Fine Arts pick list on page 155			3	0	3

First Year-Summer

CIS	110	Introduction to Computers	2	2	3
PSY	150	General Psychology	3	0	3

Second Year-Fall

EDU	131	Child, Family, & Community	3	0	3
EDU	151	Creative Activities	3	0	3
EDU	221	Children With Exceptionalities	3	0	3
EDU	261	Early Childhood Admin. I	3	0	3
Choose from Social /Behavioral Science pick list on page 155			3	0	3

Second Year-Spring

EDU	234	Infant, Toddler and Two's	3	0	3
EDU	271	Educational Technology *	2	2	3
*Offered odd-numbered years only					
EDU	280	Language & Literacy Experiences	3	0	3
EDU	284	Early Childhood Practicum	1	9	4

Second Year-Summer

COM	231	Public Speaking	3	0	3
EDU	252	Math and Science Activities *	3	0	3
*Offered odd-numbered years only					

Early Childhood Education Diploma Program (D55220C)

Title			Class/Lab/Credit		
I. General Education Courses					
Take 2 groups:					
<u>Group I:</u>					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
<u>Group II:</u> (Take 3 credits)					
BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
MAT	143	Quantitative Literacy	2	2	3
II. Major Courses					
EDU	119	Introduction to Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3
EDU	144	Child Development I	3	0	3
EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	151	Creative Activities	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3
EDU	221	Children with Exceptionalities	3	0	3
III. Other Major Courses					
EDU	184	Early Childhood Practicum	1	3	2
PSY	150	General Psychology	3	0	3
IV. Other Required Courses					
ACA	115	Success and Study Skills	0	2	1
or					
ACA	122	College Transfer Success	0	2	1
Total Credits: 40					

Recommended Semester Schedule

First Year-Fall					
ACA	115	Success and Study Skills	0	2	1
or					
ACA	122	College Transfer Success	0	2	1
EDU	119	Introduction to Childhood Education	4	0	4
EDU	144	Child Development I	3	0	3
ENG	111	Writing and Inquiry	3	0	3
PSY	150	General Psychology	3	0	3
First Year-Spring					
COM	231	Public Speaking	3	0	3
EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3
EDU	184	Early Childhood Practicum	1	3	2
Second Year-Fall					
EDU	131	Child, Family & Community	3	0	3
EDU	151	Creative Activities	3	0	3

EDU	221	Children With Exceptionalities	3	0	3
Choose from Natural Science/Math pick list on page 79			3	0	3

Early Childhood Education Certificate Program (C55220C)

Title			Class/Lab/Credit		
I. Major Courses					
EDU	119	Introduction to Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3
EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance*	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3

II. Other Major Courses

Total Credits: 16

Recommended Semester Schedule

First Year-Fall

EDU	119	Introduction to Early Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3

First Year-Spring

EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3

Infant/Toddler Care Certificate Program (C55290)

Title			Class/Lab/Credit		
I. Major Courses					
EDU	119	Introduction to Early Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3
EDU	144	Child Development I	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3
EDU	234	Infants, Toddlers and Twos	3	0	3

II. Other Major Courses

Total Credits: 16

Recommended Semester Schedule

First Year-Fall

EDU	119	Introduction to Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3
EDU	144	Child Development I	3	0	3

First Year-Spring

EDU	153	Health, Safety, and Nutrition	3	0	3
EDU	234	Infant, Toddler, & Twos	3	0	3

Total Credits: 16

Early Childhood Administration Certificate Program (C55850)

Title			Class/Lab/Credit		
I. Major Courses					
EDU	119	Introduction to Early Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3
EDU	261	Early Childhood Administration I	3	0	3
EDU	262	Early Childhood Administration II	3	0	3

II. Other Major Courses

Total Credits: 16

Recommended Semester Schedule

First Year-Fall

EDU	119	Introduction to Childhood Education	4	0	4
EDU	131	Child, Family & Community	3	0	3
EDU	261	Early Childhood Administration I	3	0	3
EDU	262	Early Childhood Administration II	3	0	3

First Year-Spring

EDU	153	Health, Safety, and Nutrition	3	0	3
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Total Credits: 16

Teaching/Training: Early Childhood Education

Concentration: Licensure

A55220L (Associate Degree)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/Lab/Credit		
I. General Education Courses					
Communications:					
ENG	111	Writing and Inquiry	3	0	3
COM	231	Public Speaking	3	0	3
Humanities: (select one course)					
ART	111	Art Appreciation	3	0	3
MUS	110	Music Appreciation	3	0	3
PHI	215	Philosophical Issues	3	0	3
PHI	240	Introduction to Ethics	3	0	3
Social Behavioral Science					
PSY	150	General Psychology	3	0	3
Mathematics:					
MAT	143	Quantitative Literacy	2	2	3
II. Major Courses					
EDU	119	Intro to Early Childhood Education	4	0	4
EDU	131	Child, Family, & Community	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	151	Creative Activities	3	0	3
EDU	153	Health, Safety & Nutrition	3	0	3
EDU	221	Children with Exceptionalities	3	0	3
EDU	234	Infants, Toddlers & Twos	3	0	3
EDU	280	Language / Literacy Experiences	3	0	3
EDU	284	Early Childhood Capstone Practice	1	9	4
Child Development:					
EDU	144	Child Development I	3	0	3
EDU	145	Child Development II	3	0	3
Additional General Ed for Transfer Specialty:					
English Composition					
ENG	112	Writing/Research in the Disciplines	3	0	3
Social/Behavioral Science (select one course)					
ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3

HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
POL	120	American Government	3	0	3
SOC	210	Introduction to Sociology	3	0	3

Biological Science

BIO	111	General Biology I	4	0	4
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Natural Science (select one group)

Group I

AST	111	Descriptive Astronomy	3	0	3
AST	111A	Descriptive Astronomy Lab	1	0	1

Group 2

AST	151	General Astronomy I	3	0	3
AST	151A	General Astronomy I Lab	1	0	1

Group 3

CHM	151	General Chemistry I	4	0	4
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Group 4

GEL	111	Geology	3	2	4
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III. Concentration Courses – Birth to Kindergarten (B-K) Licensure Transfer

EDU	216	Foundations of Education	3	0	3
EDU	250	Teacher Licensure Preparation	3	0	3

IV. Other Required Courses

ACA	122	College Transfer Success	1	0	1
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Total: 71

Recommended Semester Schedule

First Year-Fall

ACA	122	College Transfer Success	0	2	1
EDU	119	Introduction to Childhood Education	4	0	4
EDU	144	Child Development I	3	0	3
ENG	111	Writing & Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
or					
BIO	111	General Biology I	4	0	4

First Year-Spring

EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3
MAT	143	Quantitative Literacy	2	2	3
or					
BIO	111	General Biology I	4	0	4

First Year-Summer

ENG	112	Writing/Research in the Disciplines	3	0	3
PSY	150	General Psychology	3	0	3

Second Year-Fall

COM	231	Public Speaking	3	0	3
EDU	131	Child, Family, & Community	3	0	3

EDU	151	Creative Activities	3	0	3
EDU	221	Children With Exceptionalities	3	0	3
EDU	216	Foundations of Education	3	0	3

Second Year-Spring

EDU	234	Infant, Toddler and Two's	3	0	3
EDU	250	Teacher Licensure Preparation	3	0	3
EDU	280	Language & Literacy Experiences	3	0	3
EDU	284	Early Childhood Practicum	1	9	4

Second Year-Summer

Choose from Humanities/Fine Arts pick list on page 155			3	0	3
Choose from Social/Behavioral Science pick list on page 155			3	0	3
Choose from Natural Science picklist on page 155					4

Teaching/Training: Early Childhood Education

Concentration: Non-Licensure

A55220N (Associate Degree)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/Lab/Credit		
I. General Education Courses					
Communications:					
ENG	111	Writing and Inquiry	3	0	3
COM	231	Public Speaking	3	0	3
Humanities: (select one course)					
ART	111	Art Appreciation	3	0	3
MUS	110	Music Appreciation	3	0	3
PHI	215	Philosophical Issues	3	0	3
PHI	240	Introduction to Ethics	3	0	3
Social Behavioral Science					
PSY	150	General Psychology	3	0	3
Mathematics:					
MAT	143	Quantitative Literacy	2	2	3
II. Major Courses					
EDU	119	Intro to Early Childhood Education	4	0	4
EDU	131	Child, Family, & Community	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	151	Creative Activities	3	0	3
EDU	153	Health, Safety & Nutrition	3	0	3
EDU	221	Children with Exceptionalities	3	0	3
EDU	234	Infants, Toddlers & Twos	3	0	3
EDU	280	Language & Literacy Experiences	3	0	3
EDU	284	Early Childhood Capstone Practice	1	9	4
Child Development:					
EDU	144	Child Development I	3	0	3
EDU	145	Child Development II	3	0	3
Additional General Ed for Transfer Specialty:					
English Composition					
ENG	112	Writing/Research in the Disciplines	3	0	3
Social/Behavioral Science (select one course)					
ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3

HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
POL	120	American Government	3	0	3
SOC	210	Introduction to Sociology	3	0	3

Biological Science

BIO	111	General Biology I	4	0	4
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Natural Science (select one group)

Group I

AST	111	Descriptive Astronomy	3	0	3
AST	111A	Descriptive Astronomy Lab	1	0	1

Group 2

AST	151	General Astronomy I	3	0	3
AST	151A	General Astronomy I Lab	1	0	1

Group 3

CHM	151	General Chemistry I	4	0	4
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Group 4

GEL	111	Geology	3	2	4
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III. Concentration Courses – Early Education Non-Licensure Transfer

EDU	261	Early Childhood Admin I	3	0	3
EDU	262	Early Childhood Admin II	3	0	3

V. Other Required Courses

ACA	122	College Transfer Success	1	0	1
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Total 71

Recommended Semester Schedule

First Year-Fall

ACA	122	College Transfer Success	0	2	1
EDU	119	Introduction to Childhood Education	4	0	4
EDU	144	Child Development I	3	0	3
ENG	111	Expository Writing	3	0	3
MAT	143	Quantitative Literacy	2	2	3
or					
BIO	111	General Biology I	4	0	4

First Year-Spring

EDU	145	Child Development II	3	0	3
EDU	146	Child Guidance	3	0	3
EDU	153	Health, Safety, and Nutrition	3	0	3
MAT	143	Quantitative Literacy	2	2	3
or					
BIO	111	General Biology I	4	0	4

First Year-Summer

ENG	112	English Composition	3	0	3
COM	231	Public Speaking	3	0	3
PSY	150	General Psychology	3	0	3

Second Year-Fall

EDU	131	Child, Family, & Community	3	0	3
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EDU	151	Creative Activities	3	0	3
EDU	221	Children With Exceptionalities	3	0	3
EDU	261	Early Childhood Admin. I	3	0	3
EDU	262	Early Childhood Admin. II	3	0	3

Second Year-Spring

EDU	234	Infant, Toddler and Two's	3	0	3
EDU	280	Language & Literacy Experiences	3	0	3
EDU	284	Early Childhood Practicum	1	9	4
Choose from Natural Science pick list on page 155					4

Second Year-Summer

Choose from Humanities/Fine Arts pick list on page 155			3	0	3
Choose from Social/Behavioral Science pick list on page 155			3	0	3

Early Childhood Education Pick List

Humanities/Fine Arts Pick List

ART	111	Art Appreciation	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
HUM	110	Technology and Society	3	0	3
MUS	110	Music Appreciation	3	0	3

Social/Behavioral Sciences Pick List

HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
POL	120	American Government	3	0	3
SOC	210	Intro. to Sociology	3	0	3

Natural Science/Mathematics Pick List

BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
MAT	143	Quantitative Literacy	2	2	3

Associate In Arts In Teacher Preparation

A1010T (Associate Degree)

The Associate in Arts 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 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 2.7 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Requirements. 45 shc required

English Composition (6 semester hours)

ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

Humanities/Communications (9 semester hours)

Take 3 credits

COM	120	Intro to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3

Take 6 credits

ART	111	Art Appreciation	3	0	3
DRA	111	Theater Appreciation	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
MUS	110	Music Appreciation	3	0	3

Social/Behavioral Sciences (6 semester hours)

Select two courses from the following from at least two different disciplines:

ECO	251	Principles of Microeconomics	3	0	3
or					
ECO	252	Principles of Macroeconomics	3	0	3
HIS	111	World Civilizations I	3	0	3
or					
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
or					
HIS	132	American History II	3	0	3

POL	120	American Government	3	0	3
PSY	150	General Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3

Math (3-4 semester hours)

Select one course from the following:

MAT	143	Quantitative Literacy	2	2	3
MAT'	152	Statistical Methods	3	2	4
MAT	171	Precalculus Algebra	3	2	4

Natural Science (4 semester hours)

Select one course from the following:

BIO	111	General Biology I	3	3	4
CHM	151	General Chemistry I	3	3	4

II Additional General Education (17-18 semester hours credit required)

Other Required General Education (3 semester hours)

SOC	225	Social Diversity	3	0	3
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An additional 14-15 SHC of courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. *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.*

III. Other Required Hours (15 semester hours credit)

The following courses are required:

EDU	187	Teaching and Learning for All	3	3	4
EDU	216	Foundations of Education	3	0	3
EDU	250	Teacher Licensure Preparation	3	0	3
EDU	279	Literacy Development and Instruction	3	3	4

**Students who have completed Teacher Cadet or Teaching as a Profession courses in high school with a B or better may substitute that course for EDU 187 Teaching and Learning for All.*

IV. Academic Transition (1 semester hour credit)

ACA	122	College Transfer Success	1	0	1
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Total Credits: 60-61

Recommended Semester Schedule

First Year-Fall

ACA	122	College Transfer Success	1	0	1
EDU	187	Teaching and Learning for All	3	3	4
ENG	111	Writing and Inquiry	3	0	3

Select one course from the following:

MAT	143	Quantitative Literacy	2	2	3
MAT'	152	Statistical Methods	3	2	4
MAT	171	Precalculus Algebra	3	2	4
		General Education Elective	3	0	3

First Year-Spring

COM	120	Intro to Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

General Education Elective	3	0	3
Humanities/Fine Arts Elective	3	0	3
Social Science Elective	3	0	3

First Year-Summer

Humanities/Fine Arts Elective	3	0	3
Social Science Elective	3	0	3

Second Year-Fall

BIO 111 General Biology I	3	3	4
SOC 225 Social Diversity	3	0	3
EDU 216 Foundations of Education	3	0	3
General Education Elective	3	0	3

Second Year-Spring

EDU 250 Teacher Licensure Preparation	3	0	3
EDU 279 Literacy Development and Instruction	3	3	4
General Education Elective	3	0	3
General Education Elective	3	0	3

Associate In Science In Teacher Preparation

A1040T (Associate Degree)

The 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 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 2.7 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Requirements. 45 shc required

English Composition (6 semester hours)

ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

Humanities/Communications (6 semester hours)

Take 3 credits

COM	120	Intro to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3

Take 3 credits

ART	111	Art Appreciation	3	0	3
DRA	111	Theater Appreciation	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
MUS	110	Music Appreciation	3	0	3

Social/Behavioral Sciences (3 semester hours)

ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
POL	120	American Government	3	0	3
PSY	150	General Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3

Math (8 semester hours)

Select two courses from the following:

MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4

Natural Science (8 semester hours)

Select two courses from the following:

BIO	111	General Biology I	3	3	4
and					
BIO	112	General Biology II	3	3	4
or					
CHM	151	General Chemistry I	3	3	4
and					
CHM	152	General Chemistry II	3	3	4

II Additional General Education (17-18 semester hours credit required)

Other Required General Education (3 semester hours)

SOC	225	Social Diversity	3	0	3
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An additional 11-12 SHC of courses should be selected from courses classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university. *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.*

III. Other Required Hours (15 semester hours credit)

The following courses are required:

EDU	187	Teaching and Learning for All	3	3	4
EDU	216	Foundations of Education	3	0	3
EDU	250	Teacher Licensure Preparation	3	0	3
EDU	279	Literacy Development and Instruction	3	3	4

**Students who have completed Teacher Cadet or Teaching as a Profession courses in high school with a B or better may substitute that course for EDU 187 Teaching and Learning for All.*

IV. Academic Transition (1 semester hour credit)

ACA	122	College Transfer Success	1	0	1
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Total Credits: 60-61

Recommended Semester Schedule

First Year-Fall

ACA	122	College Transfer Success	1	0	1
EDU	187	Teaching and Learning for All	3	3	4
ENG	111	Writing and Inquiry	3	0	3
MAT	171	Precalculus Algebra	3	2	4
or					
MAT	271	Calculus I	3	2	4

First Year-Spring

COM	120	Intro to Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

MAT	172	Precalculus Trigonometry	3	2	4
or					
MAT	271	Calculus I	3	2	4
Humanities/Fine Arts Elective			3	0	3
Social Science Elective			3	0	3

First Year-Summer

General Education Elective			3	0	3
General Education Elective			3	0	3

Second Year-Fall

BIO	111	General Biology I	3	3	4
or					
CHM	151	General Chemistry I	3	3	4
SOC	225	Social Diversity	3	0	3
EDU	216	Foundations of Education	3	0	3
General Education Elective			3	0	3

Second Year-Spring

BIO	112	General Biology II	3	3	4
or					
CHM	152	General Chemistry II	3	3	4
EDU	250	Teacher Licensure Preparation	3	0	3
EDU	279	Literacy Development and Instruction	3	3	4
General Education Elective			3	0	3

Electrical Systems Technology

A35130 (Associate Degree) D35130 (Diploma) C35130A (Certificate) C35130B (Certificate)

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic 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, digital electronics, programmable logic controllers, industrial motor controls, the National Electric Code and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice, assisting in the layout, installation and maintenance of electrical/electronics systems.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

Title	Class/Lab/Credit
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I. General Education Courses

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
*MAT	121	Algebra/Trigonometry I	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

*Students planning to pursue a Bachelor's degree should take MAT 171, 171A, MAT 172, MAT 172A and MAT 271.

II. Major Courses

ELC	113	Residential Wiring	2	6	4
ELC	128	Introduction to PLC	2	3	3
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
ELN	231	Industrial Controls	2	3	3

III. Concentration

ELC	115	Industrial Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
ELC	119	NEC Calculations	1	2	2
ELC	213	Instrumentation	3	2	4

IV. Other Major Courses

Take 8 credits

EGR	125	Applied Software for Technology	1	2	2
ISC	112	Industrial Safety	2	0	2
PCI	264	Process Control with PLC's	3	3	4
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	113	Work-Based Learning I	0	30	3
WBL	114	Work-Based Learning I	0	40	4
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	123	Work-Based Learning II	0	30	3
WBL	124	Work-Based Learning II	0	40	4
WBL	131	Work-Based Learning III	0	10	1

WBL	132	Work-Based Learning III	0	20	2
WBL	133	Work-Based Learning III	0	30	3
WBL	134	Work-Based Learning III	0	40	4
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
WBL	213	Work-Based Learning IV	0	30	3
WBL	214	Work-Based Learning IV	0	40	4

Take 15 credits

ELN	133	Digital Electronics	3	3	4
ELN	233	Microprocessor Fundamentals	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
PHY	131	Physics-Mechanics	3	2	4

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 67

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
EGR	125	Appl. Software for Technology	1	2	2
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
ELN	133	Digital Electronics	3	3	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
ISC	112	Industrial Safety	2	0	2

First Year-Spring

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ELC	128	Introduction to PLC	2	3	3
ELN	231	Industrial Controls	2	3	3
ENG	111	Writing and Inquiry	3	0	3

First Year-Summer

MAT	121	Algebra/Trigonometry I	2	2	3
Humanities/FA Elective-See list on page 76			3	0	3
Social Sciences Elective-See list on page 76			3	0	3

Second Year-Fall

ELC	113	Residential Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
ELC	119	NEC Calculations	1	2	2
ELC	213	Instrumentation	3	2	4
PCI	264	Process Control with PLC's	3	3	4

Second Year-Spring

ACA	220	Professional Transition	1	0	1
ELC	115	Industrial Wiring	2	6	4
ELN	233	Microprocessor Fundamentals	3	3	4
PHY	131	Physics-Mechanics	3	2	4

Note: WBL 111, 112, 113, 114, 121, 122, 123, 124, 131, 132, 133, 134, 211, 212, 213, 214 may count for any of the following:
EGR 125, ELN 133, HYD 110, ISC 112, PCI 264, ELN 233, PHY 131

Electrical Systems Technology Diploma Program (D35130)

Title			Class/Lab/Credit		
I. General Education Courses					
ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3
II. Major Courses					
ELC	113	Residential Wiring	2	6	4
ELC	128	Introduction to PLC	2	3	3
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
ELN	231	Industrial Controls	2	3	3
III. Concentration					
ELC	115	Industrial Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
IV. Other Major Courses					
Take 4 credits					
EGR	125	Applied Software for Technology	1	2	2
ISC	112	Industrial Safety	2	0	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
Take 4 credits					
ELN	133	Digital Electronics	3	3	4
V. Other Required Courses					
ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1
Total Credits: 37					

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
EGR	125	Appl. Software for Technology	1	2	2
ELC	118	National Electric Code	1	2	2
ELN	133	Digital Electronics	3	3	4
ISC	112	Industrial Safety	2	0	2

First Year-Spring

ELC	115	Industrial Wiring	2	6	4
ELC	128	Introduction to PLC	2	3	3
ELN	231	Industrial Controls	2	3	3

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3

Second Year-Fall

ACA	220	Professional Transition	1	0	1
ELC	113	Residential Wiring	2	6	4
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1

Electrical Systems Technology Certificate Program (C35130A) Level I

Title	Class/Lab/Credit
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I. Major Courses

ELC	113	Residential Wiring	2	6	4
ELC	115	Industrial Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
ELC	128	Introduction to PLC	2	3	3

Total credits: 13

Recommended Semester Schedule**First Year-Fall**

ELC	113	Residential Wiring	2	6	4
ELC	118	National Electric Code	1	2	2

First Year-Spring

ELC	115	Industrial Wiring	2	6	4
ELC	128	Introduction to PLC	2	3	3

Electrical Systems Technology Certificate Program (C35130B) Level II

Title	Class/Lab/Credit
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I. Major Courses

ELC	113	Residential Wiring	2	6	4
ELC	115	Industrial Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
ELC	128	Introduction to PLC	2	3	3
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1

Total credits: 18

Recommended Semester Schedule**First Year-Fall**

ELC	113	Residential Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1

First Year-Spring

ELC	115	Industrial Wiring	2	6	4
ELC	128	Introduction to PLC	2	3	3

Emergency Management

A55460 (Associate) C55460C (Certificate) C55460E (Certificate) C55460F (Certificate)

The Emergency Management curriculum is designed to provide students with a foundation of technical and professional knowledge needed for emergency services delivery in local and state government agencies. Study involves both management and technical aspects of law enforcement, fire protection, emergency medical services, and emergency planning.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of emergency preparedness, protection, and enforcement. Students will learn technical and administrative skills such as investigative principles, hazardous materials, codes, standards, emergency agency operations, and finance.

Employment opportunities include ambulance services, fire/rescue agencies, law enforcement agencies, fire marshal offices, industrial firms, educational institutions, emergency management offices, and other government agencies. Employed persons should have opportunities for skilled and supervisory-level positions

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education

Minimum 15 hours:

COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	3	0	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Core

Required Courses (27 Hours)

EPT	120	Sociology of Disaster	3	0	3
EPT	130	Mitigation & Preparedness	3	0	3
EPT	140	Emergency Management	3	0	3
EPT	210	Response & Recovery	3	0	3
EPT	220	Terrorism & Emer. Mgt	3	0	3
EPT	275	Emergency OPS Center Mgt	3	0	3
FIP	228	Local Gov't Finance	3	0	3

Incident Management.

EPT	150	Incident Management	3	0	3
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Law and Ethics.

EPT	124	EM Services Law & Ethics	3	0	3
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III. Other Major Hours

Take 27 hours from the following list (with no more than 9 hours per prefix):

BUS	135	Principles of Supervision	3	0	3
CIS	110	Introduction to Computers	2	2	3
CJC	111	Intro to Criminal Justice	3	0	3
CJC	112	Criminology	3	0	3
CJC	120	Interviews/Interrogations	1	2	2
CJC	121	Law Enforcement Operations	3	0	3
CJC	122	Community Policing	3	0	3
CJC	131	Criminal Law	3	0	3
CJC	132	Court Procedure & Evidence	3	0	3
CJC	141	Corrections	3	0	3

CJC	160	Terrorism: Underlying Issues	3	0	3
CJC	161	Intro to Homeland Security	3	0	3
CJC	212	Ethics & Comm Relations	3	0	3
CJC	231	Constitutional Law	3	0	3
CJC	232	Civil Liability	3	0	3
EMS	110	EMT	6	6	9
FIP	110	Fire Prot/Rest & Hotels	1	0	1
FIP	120	Intro to Fire Protection	3	0	3
FIP	124	Fire Prevention & Public Ed	3	0	3
FIP	132	Building Construction	3	0	3
FIP	146	Fire Protection Systems	3	2	4
FIP	162	Firefighter Safety & Wellness	3	0	3
FIP	176	HazMat: Operations	4	0	4
FIP	180	Wildland Fire Behavior	3	0	3
FIP	184	Wildland Fire Safety	3	0	3
FIP	220	Fire Fighting Strategies	3	0	3
FIP	229	Fire Dynamics and Combust	3	0	3
FIP	232	Hydraulics & Water Dist	2	2	3
POL	130	State and Local Government	3	0	3

IV. Other Required Courses

ACA	115	Success & Study Skills	0	2	1
or					
ACA	122	College Transfer Success	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 71

Recommended Semester Schedule

First Year-Fall

ACA	115	Success & Study Skills	0	2	1
or					
ACA	122	College Transfer Success	0	2	1
CIS	110	Introduction to Computers	2	2	3
ENG	111	Writing and Inquiry	3	0	3
EPT	120	Sociology of Disaster	3	0	3
EPT	140	Emergency Management	3	0	3
FIP	120	Intro to Fire Protection	3	0	3

First Year-Spring

COM	231	Public Speaking	3	0	3
EPT	130	Mitigation & Preparedness	3	0	3
EPT	150	Incident Management	3	0	3
Choose 6 credits from CJC, FIP, EPT, EMS, BUS					6

First Year-Summer

ACA	220	Professional Transition	1	0	1
MAT	143	Quantitative Literacy	3	0	3
SOC	210	Introduction to Sociology	3	0	3
Humanities Elective-see list on page 75					3

Second Year-Fall

EPT	124	EM Services Law & Ethics	3	0	3
EPT	210	Response & Recovery	3	0	3
EPT	220	Terrorism & Emer. Mgt	3	0	3
POL	130	State and Local Government	3	0	3
FIP	228	Local Government Finance	3	0	3

Second Year-Spring

CJC	111	Intro to Criminal Justice*	3	0	3
CJC	132	Court Procedure & Evidence	3	0	3
EPT	275	Emergency OPS Center Mgt	3	0	3
Choose 6 credits from CJC, FIP, EPT, EMS, BUS					

Emergency Management-Criminal Justice Certificate (C55460C)

Title	Class/Lab/Credit				
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I. Other Major Courses

CJC	111	Intro to Criminal Justice	3	0	3
CJC	131	Criminal Law	3	0	3
CJC	132	Court Procedure & Evidence	3	0	3
CJC	231	Constitutional Law	3	0	3

II. Other Required Courses

ACA	115	Success & Study Skills	0	2	1
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Total Credits: 13***Recommended Semester Schedule*****First Year-Fall**

CJC	111	Intro to Criminal Justice	3	0	3
CJC	131	Criminal Law	3	0	3

First Year-Spring

ACA	115	Success & Study Skills	0	2	1
CJC	132	Court Procedure & Evidence	3	0	3
CJC	231	Constitutional Law	3	0	3

Emergency Management Certificate (C55460E)

Title	Class/Lab/Credit				
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I. Major Courses

EPT	130	Mitigation & Preparedness	3	0	3
EPT	140	Emergency Management	3	0	3

II. Other Major Courses

EMS	110	EMT	6	6	9
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IV. Other Required Courses

ACA	115	Success & Study Skills	0	2	1
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Total Credits: 16***Recommended Semester Schedule*****First Year-Fall**

ACA	115	Success & Study Skills	0	2	1
EMS	110AB	EMT (Emerg. Med. Technician)			4
EPT	130	Mitigation & Preparedness	3	0	3
EPT	140	Emergency Management	3	0	3

First Year-Spring

EMS	110AB	EMT (Emerg. Med. Technician)			5
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Emergency Management-Fire Technology Certificate (C55460F)

Title	Class/Lab/Credit
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I. Other Major Courses

FIP	120	Intro to Fire Protection	3	0	3
FIP	124	Fire Prevention & Public Ed	3	0	3
FIP	132	Building Construction	3	0	3
FIP	228	Local Government Finance	3	0	3

II. Other Required Courses

ACA	115	Success & Study Skills	0	2	1
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Total Credits: 13

Recommended Semester Schedule

First Year-Fall

ACA	115	Success & Study Skills	0	2	1
FIP	120	Intro to Fire Protection	3	0	3
FIP	132	Building Construction	3	0	3

First Year-Spring

FIP	124	Fire Prevention & Public Ed	3	0	3
FIP	228	Local Government Finance	3	0	3

Emergency Medical Science

A45340 (Associate Degree) C45340 (Certificate)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

I. General Education Courses		Class	Lab	Clinical	Credit
ENG-111	Writing and Inquiry	3	0	0	3
ENG-112	Research & Writing	3	0	0	3
BIO- 168	Anatomy & Physiology I	3	3	0	4

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences:

Humanities: HUM-115 Critical Thinking; HUM-122 Southern Culture; or ART-111 Art Appreciation

Social/Behavioral Science: PSY-150 General Psychology or SOC-210 Introduction to Sociology

II. Major Courses					
EMS-110	EMT	6	6	3	9
BIO-169	Anatomy & Physiology II	3	3	0	4

III. Required Subject Area					
EMS-122	EMS Clinical Practicum I	0	0	3	1
EMS-130	Pharmacology	3	3	0	4
EMS-131	Advanced Airway Management	1	2	0	2
EMS-160	Cardiology I	2	3	0	3
EMS-220	Cardiology II	2	3	0	3
EMS-221	EMS Clinical Practicum II	0	0	6	2
EMS-231	EMS Clinical Practicum III	0	0	9	3
EMS-240	Patients with Special Challenges	1	2	0	2
EMS-241	EMS Clinical Practicum IV	0	0	12	4
EMS-250	Medical Emergencies	3	3	0	4
EMS-260	Trauma Emergencies	1	3	0	2
EMS-270	Life Span Emergencies	3	3	0	4
EMS-285	EMS Capstone	1	3	0	2

IV. Other Major Courses					
EMS-235	EMS Management	2	0	0	2
MED-121	Medical Terminology I	3	0	0	3
MED-122	Medical Terminology II	3	0	0	3

V. Other Required Courses					
ACA-115	Success and Study Skills	0	2	0	1

Total Credits: 74

Recommended Semester Schedule

First Year Fall

ACA 115	Success and Study Skills	0	2	0	1
BIO-168	Anatomy & Physiology I	3	3	0	4
EMS-110	EMT	6	6	3	9
MED 121	Medical Terminology 1	3	0	0	3

First Year Spring

BIO-169	Anatomy & Physiology II	3	3	0	4
MED 122	Medical Terminology II	3	0	0	3
EMS-122	EMS Clinical Practicum	0	0	3	1
EMS-130	Pharmacology	3	3	0	4
EMS-131	Advanced Airway Management	1	2	0	2
EMS-160	Cardiology I	2	3	0	3

First Year Summer

EMS-220	Cardiology II	2	3	0	3
EMS-221	Clinical Practicum II	0	0	6	2
EMS-270	Life Span Emergencies	3	3	0	4
ENG-111	Writing and Inquiry	3	0	0	3

Second Year Fall

EMS-231	Clinical Practicum III	0	0	9	3
EMS-250	Medical Emergencies	3	3	0	4
EMS-260	Trauma Emergencies	1	3	0	2
ENG-112	Research & Writing	3	0	0	3
PSY/SOC	PSY 150 /SOC 210 only	3	0	0	3

Second Year Spring

EMS-235	EMS Management	2	0	0	2
EMS-240	Patients w/Special Challenges	1	2	0	2
EMS-241	Clinical Practicum IV	0	0	12	4
EMS-285	EMS Capstone	1	3	0	2
HUM/ART	Humanities/Art elective from page 79	3	0	0	3

Emergency Medical Science Certificate (C45340)

I. Major Courses

EMS-110	EMT	6	6	3	9
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II. Other Major Courses

EMS-235	EMS Management	2	0	0	2
MED-121	Medical Terminology I	3	0	0	3
MED-122	Medical Terminology II	3	0	0	3
ACA-115	Success and Study Skills	0	2	0	1

Total Credits: 18

Recommended Semester Schedule

First Year Fall

EMS-110	EMT	6	6	3	9
MED-121	Medical Terminology I	3	0	0	3
ACA-115	Success and Study Skills	0	2	0	1

First Year Spring

EMS-235	EMS Management	2	0	0	2
MED-122	Medical Terminology II	3	0	0	3

Emergency Medical Science Bridge Program

A45340BR (Associate Degree Bridge Program)

The Emergency Medical Science bridge program has been established for students that have completed portions of their EMS requirements through NC Community College Continuing Education program. Currently credentialed Paramedics would receive 45 semester hours of credit toward the AAS degree. The remaining course work to complete the degree will require 29 additional semester hours of work outlined below.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Once the student has been accepted into the bridge program, the student will receive credit for the following courses:

EMS-110	EMT	6	6	3	9
EMS-122	EMS Clinical Practicum I	0	0	3	1
EMS-130	Pharmacology	3	3	0	4
EMS-131	Advanced Airway Management	1	2	0	2
EMS-160	Cardiology I	2	3	0	3
EMS-220	Cardiology II	2	3	0	3
EMS-221	EMS Clinical Practicum II	0	0	6	2
EMS-231	EMS Clinical Practicum III	0	0	9	3
EMS-240	Patients with Special Challenges	1	2	0	2
EMS-241	EMS Clinical Practicum IV	0	0	12	4
EMS-250	Medical Emergencies	3	3	0	4
EMS-260	Trauma Emergencies	1	3	0	2
EMS-270	Life Span Emergencies	3	3	0	4
EMS-285	EMS Capstone	1	3	0	2

Total Credits: 45

Required Courses to complete the bridge program:

I. General Education Courses		Class	Lab	Clinical	Credit
ENG-111	Writing and Inquiry	3	0	0	3
ENG-112	Research & Writing	3	0	0	3
BIO-168	Anatomy & Physiology I	3	3	0	4

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences:

Humanities: HUM-115 Critical Thinking; HUM-122 Southern Culture; or ART-111 Art Appreciation
Social/Behavioral Science: PSY-150 General Psychology or SOC-210 Introduction to Sociology

II. Major Courses

BIO-169	Anatomy & Physiology II	3	3	0	4
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III. Other Major Courses

EMS-235	EMS Management	2	0	0	2
MED-121	Medical Terminology I	3	0	0	3
MED-122	Medical Terminology II	3	0	0	3

Total Credits: 28

Program total: 73

Recommended Semester Schedule

First Year Fall

ENG-111	Writing and Inquiry	3	0	0	3
BIO-168	Anatomy & Physiology I	3	3	0	4
MED-121	Medical Terminology I	3	0	0	3

PSY 150	General Psychology	3	0	0	3
or					
SOC 210	Introduction to Sociology	3	0	0	3

First Year Spring

EMS-235	EMS Management	2	0	0	2
ENG-112	Research & Writing	3	0	0	3
BIO-169	Anatomy & Physiology II	3	3	0	4
MED-122	Medical Terminology II	3	0	0	3
Humanities Elective: Select from pick list on page 79		3	0	0	3

Associate in Engineering

A10500 (Associate Degree)

This program is designed to promote educational advancement opportunities for Associate in Engineering degree completers moving between the NC community colleges and the constituent institutions of The University of North Carolina in order to complete Bachelor of Science in Engineering degrees. The student may complete course work equivalent to the first two years of study required for a bachelor's degree. Unless otherwise indicated, classes in this program satisfy the articulation agreement with colleges in the University of North Carolina System and are eligible for transfer to four-year degree programs, provided all other requirements for transfer are satisfied.

The Associate in Engineering degree (A.E.) is awarded upon completion of program requirements. Graduates usually transfer to a senior institution with junior status. Follow up studies show that community college transfer students are generally successful in their studies at senior institutions.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (45-46 SHC)

Title			Class/Lab/Credit		
English Composition					
ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3
Humanities: Choose One					
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
Fine Arts and Communications: Choose One					
COM	231	Public Speaking	3	0	3
ART	111	Art Appreciation	3	0	3
MUS	110	Music Appreciation	3	0	3
Social/Behavioral Sciences					
ECO	251	Principles of Microeconomics	3	0	3
Choose One:					
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
POL	120	American Government	3	0	3
PSY	150	General Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3
Mathematics					
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4
MAT	273	Calculus III	3	2	4
Natural Sciences					
CHM	151	General Chemistry I	3	3	4
PHY	251	General Physics I	3	3	4
PHY	252	General Physics II	3	3	4

Other General Education**Choose One:**

BIO	111	General Biology I	3	3	4
CHM	152	General Chemistry II	3	3	4
COM	110	Introduction to Communication	3	0	3
COM	231	Public Speaking	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
HUM	110	Technology and Society	3	0	3

OTHER REQUIRED HOURS (15-16 SHC)**Local MTCC Requirements (5 semester hours)****Must be completed within first 30 hours of enrollment.**

ACA	122	College Transfer Success	0	2	1
EGR	150	Introduction to Engineering	1	2	2
PED	110	Fitness and Wellness for Life	1	2	2

Other General Education and Pre-major Electives (10-11 SHC)

Select 10-11 SHC of courses from the following courses classified as pre-major, elective, or general education courses within the Comprehensive Articulation Agreement. *(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. Students should choose courses appropriate to the specific university and engineering major requirements.)*

BIO	111	General Biology I	3	3	4
CHM	152	General Chemistry II	3	3	4
COM	110	Introduction to Communication	3	0	3
COM	231	Public Speaking	3	0	3
CSC	134	C++ Programming	2	3	3
CSC	151	JAVA Programming	2	3	3
DFT	170	Engineering Graphics	2	2	3
ECO	252	Principles of Macroeconomics	3	0	3
EGR	220	Engineering Statics	3	0	3
HUM	110	Technology and Society	3	0	3
MAT	280	Linear Algebra	2	2	3
MAT	285	Differential Equations	2	2	3

Total Semester Hours Credit (SHC) in Program: 60 – 61

Recommended Semester Schedule
(2 year plan if starting with MAT 271 Calculus I)

First Year-Fall

ACA	122	College Transfer Success	0	2	1
MAT	271	Calculus I	3	2	4
ENG	111	Writing and Inquiry	3	0	3
CHM	151	General Chemistry I	3	3	4
ECO	251	Principles of Microeconomics	3	0	3

First Year-Spring

MAT	272	Calculus II	3	2	4
ENG	112	Writing/Research in the Disciplines	3	0	3
EGR	150	Introduction to Engineering	1	2	2
PED	110	Fitness and Wellness for Life	1	2	2
Pre-Major Engineering Elective					3 or 4
Fine Arts and Communication Requirement			3	0	3

Second Year-Fall

MAT	273	Calculus III	3	2	4
PHY	251	General Physics I	3	3	4
Engineering Pre-Major Elective					3 or 4
Humanities Requirement			3	0	3
General Education Requirement					3 or 4

Second Year-Spring

PHY	252	General Physics II	3	3	4
Social Science Elective			3	0	3
Engineering Pre-Major Elective					3 or 4
Engineering Pre-Major Elective					3 or 4

General Education

A10300 (Associate Degree)

The Associate in General Education 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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Courses 15 shc required

English Composition 6 shc

ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

Humanities/Fine Arts

Take 3 credits

ART	111	Art Appreciation	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	273	African-American Literature	3	0	3
HUM	110	Technology and Society	3	0	3
HUM	122	Southern Culture	2	2	3

Social/Behavioral Sciences

Take 3 credits

HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3

Natural Science/Mathematics

Take 3 credits

MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	2	4
MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4

II. Major Courses

A. Core

1. Required Courses
2. Required Subject Areas

B. Concentration**C. Other Major Courses****III. Other Required Courses**

After meeting program requirements, electives may be selected from the following approved courses: (Choose 49-50 shc.) 3 shc must be CIS 110.

Computer Science 3 shc

CIS	110	Introduction to Computers	2	2	3
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Health/Physical Education

HEA	110	Personal Health/Wellness	3	0	3
PED	110	Fit and Well For Life	1	2	2
PED	111	Physical Fitness	0	3	1
PED	113	Aerobics I	0	3	1
PED	117	Weight Training	0	3	1
PED	120	Walking For Fitness	0	3	1
PED	130	Tennis-Beginning	0	2	1
PED	128	Golf-Beginning	0	2	1
PED	139	Bowling-Beginning	0	2	1
PED	152	Swimming-Beginning	0	2	1
PED	155	Water Aerobics	0	3	1
PED	174	Wilderness Pursuits	0	2	1
PED	219	Disc Golf	0	2	1

Humanities/Fine Arts

ART	111	Art Appreciation	3	0	3
ART	121	Two-Dimensional Design	0	6	3
ART	171	Digital Design I	0	6	3
ART	275	Introduction to Graphic Design	0	6	3
COM	110	Introduction to Communications	3	0	3
COM	120	Intro. to Interpersonal Communications	3	0	3
COM	231	Public Speaking	3	0	3
DRA	111	Theatre Appreciation	3	0	3
DRA	126	Storytelling	3	0	3
ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
ENG	273	African-American Literature	3	0	3
FRE	111	Elementary French I*	3	0	3
FRE	112	Elementary French II*	3	0	3
HUM	110	Technology and Society	3	0	3
HUM	115	Critical Thinking	3	0	3
HUM	122	Southern Culture	3	0	3
MUS	110	Music Appreciation	3	0	3
MUS	210	History of Rock Music	3	0	3
PHI	210	History of Philosophy	3	0	3
PHI	240	Introduction to Ethics	3	0	3
REL	110	World Religion	3	0	3
REL	211	Introduction to Old Testament	3	0	3
REL	212	Introduction to New Testament	3	0	3
SPA	111	Elementary Spanish I	4	0	4
SPA	112	Elementary Spanish II	4	0	4
SPA	181	Spanish Lab I	0	2	1
SPA	182	Spanish Lab II	0	2	1

SPA	211	Intermediate Spanish I	3	0	3
SPA	212	Intermediate Spanish II	3	0	3
SPA	281	Spanish Lab III	0	2	1
SPA	282	Spanish Lab IV	0	2	1

Social/Behavioral Sciences

ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
POL	120	American Government	3	0	3
POL	130	State and Local Government	3	0	3
POL	210	Comparative Government	3	0	3
PSY	150	General Psychology	3	0	3
PSY	239	Psychology of Personality	3	0	3
PSY	241	Developmental Psychology	3	0	3
PSY	281	Abnormal Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3
SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3
SOC	242	Sociology of Deviance	3	0	3

Natural Science

AST	151	General Astronomy I	3	0	3
AST	151A	General Astronomy I Lab	0	2	1
AST	152	General Astronomy II	3	0	3
AST	152A	General Astronomy II Lab	0	2	1
BIO	155	Nutrition	3	0	3
BIO	163	Basic Anatomy and Physiology	4	2	5
BIO	168	Anatomy and Physiology I	3	3	4
BIO	169	Anatomy and Physiology II	3	3	4
BIO	175	General Microbiology	2	2	3
BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
BIO	275	Microbiology	3	3	4
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1
CHM	132	Organic and Biochemistry	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
GEL	111	Geology	3	2	4
PHY	110	Conceptual Physics	3	0	3
PHY	110A	Conceptual Physics Lab	0	2	1
PHY	151	College Physics I	3	2	4
PHY	152	College Physics II	3	2	4
PHY	251	General Physics I	3	3	4
PHY	252	General Physics II	3	3	4

Mathematics

MAT	143	Quantitative Literacy	2	2	3
MAT	152	Statistical Methods I	3	2	4
MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4

MAT	272	Calculus II	3	2	4
MAT	273	Calculus III	3	2	4
MAT	280	Linear Algebra	2	2	3
MAT	285	Differential Equations	2	2	3

Students must meet the receiving university's foreign language and/or health and physical education requirements either before or after transfer to the senior institution.

Other Electives

ACA	115	Success & Study Skills	0	2	1
ACA	122	College Transfer Success	1	0	1
ACC	120	Principles of Financial Accounting	3	2	4
ACC	121	Principles of Managerial Accounting	3	2	4
ASL	111	Elementary ASL I	3	0	3
ASL	112	Elementary ASL II	3	0	3
ASL	181	ASL Lab I	0	2	1
ASL	182	ASL Lab II	0	2	1
BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law	3	0	3
BUS	137	Principles of Management	3	0	3
CIS	111	Basic PC Literacy	1	2	2
CIS	115	Introduction to Programming and Logic	2	2	3
CSC	134	C++ Programming	2	3	3
CSC	151	JAVA Programming	2	3	3
CTS	115	Information Systems Business Concepts	3	0	3
EGR	150	Intro. to Engineering	1	2	2
EGR	220	Engineering Statistics	3	0	3
MED	121	Medical Terminology I	3	0	3
MED	122	Medical Terminology II	3	0	3
NAS	101	Nursing Assistant I	3	2	3 5
NAS	102	Nursing Assistant II	3	2	6 6
NAS	103	Nursing Assistant III	2	0	0 2
NUT	110	Nutrition	3	0	0 3

Total Credits: 64-66

Associate in General Education Nursing

A1030N (Associate Degree)

The Associate in General Education (AGE)-Nursing is designed for students who wish to begin their study toward the Associate in Nursing degree and a Baccalaureate degree in Nursing as based on Blocks 1 through 3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) programs and the North Carolina Community College Associate Degree Nursing Programs which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015. The AGE-Nursing shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses.

A student who completes an Associate in Applied Science (AAS) in Nursing with a GPA of at least 2.0 and a grade of C or better in the AGE-Nursing courses listed below and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is guaranteed admission to the program of his or her choice.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit
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I. General Education Courses 15 shc required

English Composition (6 semester hours)

ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3

Humanities/Communications (9 semester hours)

Take 6 credits

ART	111	Art Appreciation	3	0	3
ART	114	Art History Survey I	3	0	3
ART	115	Art History Survey II	3	0	3
HUM	115	Critical Thinking	3	0	3
MUS	110	Music Appreciation	3	0	3
MUS	112	Introduction to Jazz	3	0	3
PHI	215	Philosophical Issues	3	0	3
PHI	240	Introduction to Ethics	3	0	3

Take 3 credits

ENG	231	American Literature I	3	0	3
ENG	232	American Literature II	3	0	3

Social/Behavioral Sciences (9 semester hours)

Take 9 credits

PSY	150	General Psychology	3	0	3
PSY	241	Developmental Psychology	3	0	3
SOC	210	Introduction to Sociology	3	0	3

Take 3 credits

SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3
SOC	225	Social Diversity	3	0	3
SOC	230	Race and Ethnic Relations	3	0	3
SOC	240	Social Psychology	3	0	3

Take 3 credits

HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3

Natural Science**Take 8 credits**

BIO	168	Anatomy and Physiology	3	3	4
BIO	169	Anatomy and Physiology	3	3	4

Take 3 credits

BIO	175	General Microbiology	2	2	3
BIO	275	Microbiology	3	3	4

Take 1 of 2 Groups

CHM	151	General Chemistry I	3	3	4
or					
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1

Math**Take 4 credits**

MAT	152	Statistical Methods I	3	2	4
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Take 3 credits

MAT	143	Quantitative Literacy	2	2	3
MAT	171	Pre-Calculus	3	2	4

II. Other Required Courses

ACA	122	College Transfer Success	0	2	1
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III. Additional General Education**Take 7 credits**

ART	111	Art Appreciation	3	0	3
AST	151	General Astronomy I	3	0	3
AST	151A	General Astronomy I Lab	0	2	1
AST	152	General Astronomy II	3	0	3
AST	152A	General Astronomy II Lab	0	2	1
BIO	111	General Biology I	3	3	4
BIO	112	General Biology II	3	3	4
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1
CHM	132	Organic and Biochemistry	3	3	4
CHM	151	General Chemistry I	3	3	4
CHM	152	General Chemistry II	3	3	4
CIS	110	Introduction to Computers	2	2	3
CIS	115	Introduction to Programming and Logic	2	3	3
COM	110	Introduction to Communication	3	0	3
COM	120	Introduction to Interpersonal Communication	3	0	3
COM	231	Public Speaking	3	0	3
DRA	111	Theatre Appreciation	3	0	3
DRA	126	Storytelling	3	0	3
ECO	251	Principles of Microeconomics	3	0	3
ECO	252	Principles of Macroeconomics	3	0	3
ENG	114	Professional Research and Reporting	3	0	3
ENG	231	American Literature I	3	0	3

ENG	232	American Literature II	3	0	3
ENG	241	British Literature I	3	0	3
ENG	242	British Literature II	3	0	3
FRE	111	Elementary French I	3	0	3
FRE	112	Elementary French II	3	0	3
HIS	111	World Civilizations I	3	0	3
HIS	112	World Civilizations II	3	0	3
HIS	131	American History I	3	0	3
HIS	132	American History II	3	0	3
HUM	110	Technology and Society	3	0	3
HUM	115	Critical Thinking	3	0	3
HUM	120	Cultural Studies	3	0	3
HUM	122	Southern Culture	3	0	3
MAT	143	Quantitative Literacy	2	2	3
MAT	171	Precalculus Algebra	3	2	4
MAT	172	Precalculus Trigonometry	3	2	4
MAT	271	Calculus I	3	2	4
MAT	272	Calculus II	3	2	4
MAT	273	Calculus III	3	2	4
MUS	110	Music Appreciation	3	0	3
MUS	210	History of Rock Music	3	0	3
PHI	210	History of Philosophy	3	0	3
PHI	240	Introduction to Ethics	3	0	3
PHY	110	Conceptual Physics	3	0	3
PHY	110A	Conceptual Physics Lab	0	2	1
PHY	151	College Physics I	3	2	4
PHY	152	College Physics II	3	2	4
PHY	251	General Physics I	3	3	4
PHY	252	General Physics II	3	3	4
POL	120	American Government	3	0	3
POL	210	Comparative Government	3	0	3
PSY	239	Psychology of Personality	3	0	3
PSY	281	Abnormal Psychology	3	0	3
REL	110	World Religion	3	0	3
REL	211	Introduction to Old Testament	3	0	3
REL	212	Introduction to New Testament	3	0	3
SOC	213	Sociology of the Family	3	0	3
SOC	220	Social Problems	3	0	3
SPA	111	Elementary Spanish I	3	0	3
SPA	112	Elementary Spanish II	3	0	3
SPA	211	Intermediate Spanish I	3	0	3
SPA	212	Intermediate Spanish II	3	0	3

Total Credits: 60

General Occupational Technology (GOT)

A55280 (Associate of Applied Science Degree)

Curriculum Description:

The General Occupational Technology (GOT) curriculum provides individuals with the opportunity to upgrade their skills and earn an associate degree by taking courses that offer specific job knowledge and skills.

The curriculum content will be individualized for students according to their occupational interests and needs. A program of study for each student will be developed from any non-developmental level courses from approved curriculum programs of study offered by MTCC.

Graduates will become more effective and diverse workers, better qualified for advancements within their field of employment and better equipped for a wide range of entry-level employment opportunities.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

****All courses included in the individualized GOT curriculum must be taken from approved associate of applied science, diploma or certificate programs.**

<u>Title</u>	<u>Credit</u>
General Education Requirements:	
A.A.S. General Education Core:	15 semester credit hours

Communication

A.A.S. programs must contain a minimum of 6 credit hours(two courses) in communications. Students may choose from the following:

ENG	111	Writing and Inquiry	3
ENG	112	Writing/Research in the Disciplines	3
COM	110	Introduction to Communication	3
COM	120	Introd. to Interpersonal Communication	3
COM	231	Public Speaking	3

Humanities/Fine Arts

A.A.S. and Diploma programs must contain a minimum of 3 credit hours(1 course) in humanities/fine arts. Students may choose from the following:

ART	111	Art Appreciation	3
ART	114	Art History Survey I	3
ART	115	Art History Survey II	3
DRA	111	Theatre Appreciation	3
DRA	126	Storytelling	3
ENG	231	American Literature I	3
ENG	232	American Literature II	3
ENG	241	British Literature I	3
ENG	242	British Literature II	3
ENG	273	African-American Literature	3
HUM	110	Technology and Society	3
HUM	115	Critical Thinking	3
HUM	122	Southern Culture	3
MUS	110	Music Appreciation	3
MUS	112	Introduction to Jazz	3
MUS	210	History of Rock Music	3
PHI	210	History of Philosophy	3

PHI	215	Philosophical Issues	3
PHI	240	Introduction to Ethics	3
REL	110	World Religions	3
REL	211	Introduction to Old Testament	3
REL	212	Introduction to New Testament	3
SPA	111	Elementary Spanish I	3
SPA	112	Elementary Spanish II	3

Social/Behavioral Science

A.A.S. and Diploma programs must contain a minimum of 3 credit hours(1 course) in humanities/fine arts. Students may choose from the following:

ECO	251	Principles of Microeconomics	3
ECO	251	Principles of Macroeconomics	3
HIS	111	World Civilizations I	3
HIS	112	World Civilizations II	3
HIS	131	American History I	3
HIS	132	American History II	3
POL	120	American Government	3
POL	130	State and Local Government	3
POL	210	Comparative Government	3
PSY	150	General Psychology	3
PSY	239	Psychology of the Family	3
PSY	241	Developmental Psychology	3
PSY	244	Child Development I	3
PSY	244	Child Development II	3
PSY	281	Abnormal Psychology	3
SOC	210	Introduction to Sociology	3
SOC	213	Sociology of the Family	3
SOC	220	Social Problems	3
SOC	242	Sociology of Deviance	3

Natural Science/Mathematics

A.A.S. and Diploma programs must contain a minimum of 3 credit hours(1 course) in humanities/fine arts. Students may choose from the following:

AST	151	General Astronomy I	3
AST	151A	General Astronomy I Lab	1
AST	152	General Astronomy II	3
AST	152A	General Astronomy II Lab	1
BIO	111	General Biology I	4
BIO	112	General Biology II	4
BIO	163	Basic Anatomy and Physiology	5
BIO	168	Anatomy and Physiology I	4
BIO	169	Anatomy and Physiology II	4
BIO	275	Microbiology	4
CHM	131	Introduction to Chemistry	3
CHM	131A	Introduction to Chemistry Lab	1
CHM	151	General Chemistry I	4
CHM	152	General Chemistry II	4
MAT	110	Math Measurement and Literacy	3
MAT	121	Algebra and Trigonometry I	3
MAT	143	Quantitative Literacy	3
MAT	152	Statistical Methods I	3
MAT	171	Precalculus Algebra	4
MAT	172	Precalculus Trigonometry	4
MAT	271	Calculus I	4
MAT	272	Calculus II	4

MAT	273	Calculus III	4
MAT	280	Linear Algebra	3
MAT	285	Differential Equations	3
PHY	151	College Physics I	4

Major Courses:

A.A.S. Major Courses: 49 semester credit hours

**Of the 49, 18 credit hours must be selected from courses of associate degree-level curriculum programs offered at the College

**Thirty-one additional hours must be chosen from courses in curriculums offered by the College, including a maximum of eight credit hours through work experience, cooperative education, practicums and internships.

Other Required Hours:

ACA	115	Success and Study Skills	1
ACA	122	College Transfer Success	1
ACA	220	Professional Transition	1
ACC	120	Principles of Financial Accounting	4
ACC	121	Principles of Managerial Accounting	4
ACC	129	Individual Income Taxes	3
ACC	130	Business Income Taxes	3
ACC	140	Payroll Accounting	2
ACC	150	Accounting Software Applications	2
ACC	180	Practices in Bookkeeping	3
ACC	220	Intermediate Accounting I	4
ACC	221	Intermediate Accounting II	4
ACC	227	Practices in Accounting	3
ACC	240	Government and Not-for-Profit Accounting	3
ACC	250	Advanced Accounting	3
ACC	269	Audit and Assurance Services	3
AGR	265	Organic Crop Production: Spring	3
AGR	266	Organic Crop Production: Fall	3
AHR	110	Introduction to Refrigeration	5
AHR	111	HVACR Electricity	3
AHR	112	Heating Technology	4
AHR	113	Comfort Cooling	4
AHR	114	Heat Pump Technology	4
AHR	115	Refrigeration Systems	2
AHR	120	HVACR Maintenance	2
AHR	125	HVAC Electronics	2
AHR	130	HVAC Controls	3
AHR	135	Transportation Refrigeration	4
AHR	160	Refrigerant Certification	1
AHR	180	HVACR Customer Relations	1
AHR	210	Residential Building Code	2
AHR	211	Residential System Design	3
AHR	212	Residential System	3
AHR	213	HVACR Building	2
AHR	235	Refrigeration Design	3
AHR	245	Chiller Systems	2
ARC	112	Construction Materials and Methods	4
ART	111	Art Appreciation	3
ART	114	Art History Survey I	3
ART	115	Art History Survey II	3
ART	121	Two-Dimensional Design	3
ART	171	Digital Design I	3
ART	275	Introduction to Commercial Art	3

ASL	111	Elementary ASL I	3
ASL	112	Elementary ASL II	3
ASL	181	ASL Lab I	1
ASL	182	ASL Lab II	1
AST	151	General Astronomy I	3
AST	151A	General Astronomy I Lab	1
AST	152	General Astronomy II	3
AST	152A	General Astronomy II Lab	1
ATR	112	Intro. to Automation	3
ATR	212	Industrial Robots	3
ATT	115	Green Trans Safety & Service	2
ATT	125	Hybrid-Electric Trans	4
ATT	140	Emerging Transp Tech	3
AUT	113	Automotive Servicing I	2
AUT	116	Engine Repair	3
AUT	116A	Engine Repair Lab	1
AUT	141	Suspension and Steering Systems	3
AUT	141A	Suspension and Steering Systems Lab	1
AUT	151	Brake Systems	3
AUT	151A	Brake Systems Lab	1
AUT	161	Basic Auto Electricity	5
AUT	181	Engine Performance I	3
AUT	181A	Engine Performance I Lab	1
AUT	183	Engine Performance II	4
AUT	221	Automatic Transmissions/Transaxles	3
AUT	221A	Auto Trans/Transaxles Lab	1
AUT	231	Manual Transmissions/Ax/Drtrains	3
AUT	231A	Manual Transmissions/Ax/Drtrains Lab	1
BPR	130	Print Reading Construction	3
BIO	111	General Biology I	4
BIO	112	General Biology II	4
BIO	155	Nutrition	3
BIO	163	Basic Anatomy and Physiology	5
BIO	168	Anatomy and Physiology I	4
BIO	169	Anatomy and Physiology II	4
BIO	175	General Microbiology	3
BIO	275	Microbiology	4
BPR	111	Print Reading	2
BPR	121	Blueprint Reading: Mechanical	2
BPR	122	Blueprint Reading: Mechanical Advanced	2
BPR	135	Schematics and Diagrams	2
BUS	110	Introduction to Business	3
BUS	115	Business Law I	3
BUS	125	Personal Finance	3
BUS	135	Principles of Supervision	3
BUS	137	Principles of Management	3
BUS	147	Business Insurance	3
BUS	153	Human Resource Management	3
BUS	225	Business Finance	3
BUS	230	Small Business Management	3
BUS	240	Business Ethics	3
BUS	253	Leadership and Management Skills	3
BUS	260	Business Communication	3
BUS	280	REAL Small Business	4
CAR	111	Carpentry I	8
CAR	112	Carpentry II	8
CCT	110	Intro to Cyber Crime	3
CCT	112	Ethics and High Technology	3

CCT	121	Computer Crime Invest.	4
CCT	231	Technology Crimes and Law	3
CCT	240	Data Recovery Techniques	3
CCT	250	Network Vulnerabilities	3
CCT	251	Network Vulnerabilities II	3
CCT	289	Capstone Project	3
CHM	131	Introduction to Chemistry	3
CHM	131A	Introduction to Chemistry Lab	1
CHM	132	Organic and Biochemistry	4
CHM	151	General Chemistry I	4
CHM	152	General Chemistry II	4
CHM	251	Organic Chemistry I	4
CHM	252	Organic Chemistry II	4
CHM	271	Biochemical Principles	3
CHM	271A	Biochemical Principles Lab	1
CIS	070	Fundamentals of Computing	1
CIS	110	Introduction to Computers	3
CIS	111	Basic PC Literacy	2
CIS	115	Introduction to Programming and Logic	3
CJC	110	Basic Law Enforcement Training	20
CJC	111	Intro to Criminal Justice*	3
CJC	112	Criminology	3
CJC	120	Interviews/Interrogations	2
CJC	121	Law Enforcement Operations*	3
CJC	122	Community Policing	3
CJC	131	Criminal Law	3
CJC	132	Court Procedures & Evidence	3
CJC	141	Corrections	3
CJC	144	Crime Scene Processing	3
CJC	160	Terrorism: Underlying Issues	3
CJC	161	Intro to Homeland Security	3
CJC	212	Ethics & Comm Relations	3
CJC	231	Constitutional Law	3
CJC	232	Civil Liability	3
CMT	120	Codes & Inspections	3
COM	110	Introduction to Communication	3
COM	120	Introduction to Interpersonal Communication	3
COM	231	Public Speaking	3
COS	111	Cosmetology Concepts I	4
COS	112	Salon I	8
COS	113	Cosmetology Concepts II	4
COS	114	Salon II	8
COS	115	Cosmetology Concepts III	4
COS	116	Salon III	4
COS	117	Cosmetology Concepts IV	2
COS	118	Salon IV	7
COS	119	Esthetics Concepts I	2
COS	120	Esthetics Salon I	6
COS	121	Manicure/Nail Technology I	6
COS	125	Esthetics Concepts II	2
COS	126	Esthetics Salon II	6
COS	222	Manicure/Nail Technology II	6
COS	224	Trichology and Chemistry	2
COS	240	Contemporary Design	2
COS	250	Computerized Salon Ops	1
COS	251	Manicure Instructor Concepts	8
COS	252	Manicure Instructor Practicum	5
COS	253	Esthetics Instructor Concepts I	11

COS	254	Esthetics Instructor Concepts II	11
COS	271	Instructor Concepts I	5
COS	272	Instructor Practicum I	7
COS	273	Instructor Concepts II	5
COS	274	Instructor Practicum II	7
CSC	134	C++ Programming	3
CSC	151	JAVA Programming	3
CST	131	OSHA/Safety/Certification	3
CST	221	Statics/Structures	4
CST	241	Planning/Estimating I	3
CTI	110	Web, PGM and Db Foundation	3
CTI	120	Network and Security Foundations	3
CTI	140	Virtualization Concepts	3
CTS	115	Information Systems Business Concepts	3
CTS	120	Hardware/Software Support	3
CTS	130	Spreadsheet	3
CTS	135	Integrated Software Introduction	4
CTS	285	Systems Analysis and Design	3
CTS	289	System Support Project	3
DBA	110	Database Concepts	3
DDF	110	Cabinet Design/Drafting	2
DES	135	Principles and Elements of Design I	4
DFT	119	Basic CAD	2
DFT	170	Engineering Graphics	3
DRA	111	Theatre Appreciation	3
DRA	126	Storytelling	3
ECO	251	Principles of Microeconomics	3
ECO	252	Principles of Macroeconomics	3
EDU	119	Introduction to Early Child Education	4
EDU	131	Child, Family and Communication	3
EDU	144	Child Development I	3
EDU	145	Child Development II	3
EDU	146	Child Guidance	3
EDU	151	Creative Activities	3
EDU	153	Health, Safety and Nutrition	3
EDU	161	Intro to Exceptional Children	3
EDU	163	Classroom Management and Instruction	3
EDU	175	Introduction to Trade and Industry	3
EDU	177	Instructional Methods	3
EDU	179	Vocational Student Organizations	3
EDU	184	Early Childhood Intro Practicum	2
EDU	187	Teaching and Learning for All	4
EDU	216	Foundations of Education	4
EDU	221	Children with Exceptional	3
EDU	222	Learn w/ Behavioral Disorders	3
EDU	223	Specific Learning Disabilities	3
EDU	234	Infants, Toddlers and Twos	3
EDU	235	School-Age Dev and Program	3
EDU	243	Infants, Toddlers and Twos	3
EDU	247	Sensory and Physical Disabilities	3
EDU	248	Developmental Delays	3
EDU	250	Teacher Licensure Prep	3
EDU	252	Math and Science Activities	3
EDU	261	Early Childhood Administration I	3
EDU	262	Early Childhood Administration II	3
EDU	271	Educational Technology	3
EDU	275	Effective Teaching Training	2
EDU	279	Literacy Development and Instruction	4

EDU	280	Language and Literacy Experience	3
EDU	281	Instructor Strategies/Read and Write	3
EDU	284	Early Childhood Capstone Practicum	4
EDU	285	Internship Experience—School Age	4
EDU	289	Advanced Issues/School Age	1
EGR	125	Applied Software for Technology	2
EGR	150	Introduction to Engineering	2
EGR	220	Engineering Statistics	3
ELC	111	Introduction to Electricity	3
ELC	112	DC/AC Electricity	5
ELC	113	Residential Wiring	4
ELC	115	Industrial Wiring	4
ELC	118	National Electric Code	2
ELC	119	NEC Calculations	2
ELC	128	Introduction to PLC	3
ELC	130	Advanced Motor Controls	3
ELC	131	Circuit Analysis	4
ELC	131A	Circuit Analysis I Lab	1
ELC	213	Instrumentation	4
ELN	131	Analog Electronics	4
ELN	133	Digital Electronics	4
ELN	135	Electronic Circuits	3
ELN	140	Semiconductor Devices	6
ELN	141	Digital Fundamentals	6
ELN	231	Industrial Controls	3
ELN	233	Microprocessor Systems	4
ELN	247	Electronic App Project	2
ELN	275	Troubleshooting	2
EMS	110	EMT	8
EMS	122	EMS Clinical Practicum I	1
EMS	130	Pharmacology	4
EMS	131	Advanced Airway Management	2
EMS	140	Rescue Scene Management	2
EMS	160	Cardiology I	3
EMS	220	Cardiology II	3
EMS	221	EMS Clinical Practicum II	2
EMS	231	EMS Clinical Practicum III	3
EMS	235	EMS Management	2
EMS	240	Patients with Special Challenges	2
EMS	241	EMS Clinical Practicum IV	4
EMS	250	Medical Emergencies	4
EMS	260	Trauma Emergencies	2
EMS	270	Lifespan Emergencies	4
EMS	285	EMS Capstone	2
ENG	101	Applied Communications I	3
ENG	111	Writing and Inquiry	3
ENG	112	Writing/Research in the Disciplines	3
ENG	125	Creative Writing I	3
ENG	231	American Literature	3
ENG	232	American Literature II	3
ENG	241	British Literature I	3
ENG	242	British Literature II	3
ENG	272	Southern Literature	3
ENG	273	African-American Literature	3
EPT	120	Sociology of Disaster	3
EPT	124	EM Services Law & Ethics	3
EPT	130	Mitigation & Preparedness	3
EPT	140	Emergency Management	3

EPT	150	Incident Management	3
EPT	210	Response & Recovery	3
EPT	220	Terrorism & Emer. Mgt	3
EPT	275	Emergency OPS Center Mgt	3
FIP	110	Fire Prot/Rest & Hotels	1
FIP	120	Intro to Fire Protection	3
FIP	124	Fire Prevention & Public Ed	3
FIP	132	Building Construction	3
FIP	146	Fire Protection Systems	4
FIP	162	Firefighter Safety & Wellness	3
FIP	176	HazMat: Operations	4
FIP	180	Wildland Fire Behavior	3
FIP	184	Wildland Fire Safety	3
FIP	220	Fire Fighting Strategies	3
FIP	228	Local Government Finance	3
FIP	229	Fire Dynamics and Combust	3
FIP	232	Hydraulics & Water Dist	3
FRE	111	Elementary French I	3
FRE	112	Elementary French II	3
GEL	111	Geology	4
GRD	110	Typography I	3
GRD	113	History of Graphic Design	3
GRD	121	Drawing Fundamentals I	3
GRD	131	Illustration I	2
GRD	141	Graphic Design I	4
GRD	142	Graphic Design II	4
GRD	151	Computer Design Basics	3
GRD	152	Computer Design Tech I	3
GRD	160	Photo Fundamentals I	3
GRD	180	Interactive Design	3
GRD	241	Graphic Design III	4
GRD	242	Graphic Design IV	4
GRD	249	Advanced Design Practice	4
GRD	263	Illustrative Imaging	3
GRD	271	Multimedia Design I	2
GRD	280	Portfolio Design	4
GRD	281	Design of Advertising	2
GRD	285	Client/Media Relations	2
GRO	120	Geneology	3
HEA	110	Personal Health/Wellness	3
HIT	110	Fundamentals of HIM	3
HIT	112	Health Law and Ethics	3
HIT	114	Health Data Systems/Standards	3
HIT	122	Professional Practice Exp I	1
HIT	124	Professional Practice Exp II	1
HIT	210	Healthcare Statistics	3
HIT	211	ICD Coding	4
HIT	213	Inpatient Proc. Coding and Reporting	2
HIT	214	CPT/Other Coding Systems	2
HIT	215	Reimbursement Methodology	2
HIT	216	Quality Management	2
HIT	217	Quality & Data Analytics	3
HIT	218	Mgmt Principles in HIT	3
HIT	220	Electronic Health Records	2
HIT	221	Lifecycle of HER	3
HIT	222	Prof Practice Exp III	2
HIT	225	Healthcare Informatics	4
HIT	226	Principles of Disease	3

HIT	227	Informatics Project Mgt	3
HIT	280	Professional Issues	2
HIS	111	World Civilizations I	3
HIS	112	World Civilizations II	3
HIS	131	American History I	3
HIS	132	American History II	3
HMT	110	Intro to Healthcare Mgt.	3
HMT	210	Medical Insurance	3
HMT	211	Longterm Care Admin.	3
HUM	110	Technology & Society	3
HUM	115	Critical Thinking	3
HUM	120	Technology and Society	3
HUM	122	Southern Culture	3
HYD	110	Hydraulics/Pneumatics I	3
ISC	112	Industrial Safety	2
ISC	115	Construction Safety	2
ISC	121	Environmental Health and Safety	3
ISC	130	Introduction of Quality Control	3
ISC	210	Oper and Prod Planning	3
LDD	112	Intro to Light Duty Diesel	3
LDD	181	LDD Fuel System	4
MAC	114	Introduction to Metrology	2
MAC	121	Introduction to CNC	2
MAC	122	CNC Turning	2
MAC	124	CNC Milling	2
MAC	141	Machining Applications I	4
MAC	142	Machining Applications II	4
MAC	143	Machining Applications III	4
MAC	151	Machining Calculations	2
MAC	152	Adv Machining Calculations	2
MAC	222	Advanced CNC Turning	2
MAC	224	Advanced CNC Milling	2
MAC	231	CAM: CNC Turning	3
MAC	232	CAM: CNC Milling	3
MAC	247	Production Tooling	2
MAS	140	Introduction to Masonry	2
MAT	110	Math Measurement and Literacy	3
MAT	121	Algebra/Trigonometry I	3
MAT	143	Quantitative Literacy	3
MAT	152	Statistical Methods I	4
MAT	171	Precalculus Algebra	4
MAT	172	Precalculus Trigonometry	4
MAT	271	Calculus I	4
MAT	272	Calculus II	4
MAT	273	Calculus III	4
MAT	280	Linear Algebra	3
MAT	285	Differential Equations	3
MEC	111	Machine Processes I	3
MEC	112	Machine Processes II	3
MEC	130	Mechanisms	3
MEC	141	Introduction Mfg Processes	3
MEC	142	Physical Metallurgy	2
MEC	161	Manufacturing Processes I	3
MED	120	Survey of Medical Terminology	2
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
MKT	120	Principles of Marketing	3
MKT	121	Retailing	3

MKT	122	Visual Merchandising	3
MKT	123	Fundamentals of Selling	3
MKT	220	Advertising and Sales Promotion	3
MKT	223	Customer Service	3
MKT	224	International Marketing	3
MKT	225	Marketing Research	3
MKT	227	Marketing Applications	3
MKT	230	Public Relations	3
MKT	232	Social Media Marketing	3
MNT	110	Introduction to Maintenance Procedures	2
MUS	110	Music Appreciation	3
MUS	112	Introduction to Jazz	3
MUS	210	History of Rock Music	3
NAS	101	Nursing Assistant I	6
NAS	102	Nursing Assistant II	6
NAS	103	Home Health Care Nurse Aide	6
NET	125	Networking Basics	3
NOS	110	Operating System Concepts	3
NOS	120	Linux/UNIX Single User	3
NOS	130	Windows Single User	3
NOS	230	Windows Admin I	3
NUR	101	Practical Nursing I	11
NUR	102	Practical Nursing II	12
NUR	103	Practical Nursing III	10
NUR	111	Introduction to Health Concepts	8
NUR	112	Health Illness Concepts	5
NUR	113	Family Health Concepts	5
NUR	114	Holistic Health Concepts	5
NUR	211	Health Care Concepts	5
NUR	212	Health System Concepts	5
NUR	213	Complex Health Concepts	10
NUR	214	Nursing Transition Concepts	4
NUT	110	Nutrition	3
OMT	112	Materials Management	3
OMT	143	Just-in-Time	2
OMT	260	Issues in Operations Mgmt	3
OST	080	Keyboarding Literacy	2
OST	122	Office Computations	2
OST	131	Keyboarding	2
OST	134	Text Entry and Formatting	3
OST	135	Adv Text Entry and Formatting	4
OST	136	Word Processing	3
OST	149	Medical Legal Issues	3
OST	153	Office Finance Solutions	2
OST	164	Text Editing Applications	3
OST	184	Records Management	3
OST	236	Adv Word/Information Processing	3
OST	244	Medical Document Production	2
OST	247	Procedure Coding	2
OST	248	Diagnostic Coding	2
OST	249	Medical Coding Certification Prep	3
OST	250	Long-Term Care Coding	3
OST	286	Professional Development	3
OST	289	Office Systems Management	3
PCI	264	Process Control with PLC's	4
PED	110	Fit and Well for Life	2
PED	111	Physical Fitness	1

PED	113	Aerobics I	1
PED	117	Weight Training I	1
PED	120	Walking for Fitness	1
PED	128	Golf-Beginning	1
PED	130	Tennis-Beginning	1
PED	139	Bowling-Beginning	1
PED	152	Swimming-Beginning	1
PED	155	Water Aerobics	1
PED	174	Wilderness Pursuits	1
PED	219	Disc Golf	1
PHI	210	History of Philosophy	3
PHI	215	Philosophical Issues	3
PHI	240	Introduction to Ethics	3
PHO	110	Fundamentals of Photography	5
PHO	113	History of Photography	3
PHO	115	Basic Studio Lighting	4
PHO	120	Intermediate Photography	4
PHO	132	Small-Format Photography	4
PHO	139	Introduction to Digital Imaging	2
PHO	140	Digital Photo Imaging I	4
PHO	150	Portfolio Development I	4
PHO	180	Creative Problem Solving	3
PHO	216	Documentary Photography	4
PHO	217	Photojournalism I	4
PHO	220	Business of Photography	3
PHO	222	Video Production	3
PHO	224	Multimedia Production	3
PHO	226	Portraiture	4
PHO	235	Commercial Photography	4
PHY	110	Conceptual Physics	3
PHY	110A	Conceptual Physics Lab	1
PHY	131	Physics-Mechanics	4
PHY	151	College Physics I	4
PHY	152	College Physics II	4
PHY	251	General Physics I	4
PHY	252	General Physics II	4
PLA	110	Introduction to Plastics	2
PLU	115	Basic Plumbing	4
POL	120	American Government	3
POL	130	State and Local Government	3
POL	210	Comparative Government	3
PSY	118	Interpersonal Psychology	3
PSY	150	General Psychology	3
PSY	239	Psychology of Personality	3
PSY	241	Developmental Psychology	3
PSY	244	Child Development I	3
PSY	245	Child Development II	3
PSY	281	Abnormal Psychology	3
REF	116	Commercial Systems	4
REF	117	Refrigeration Controls	4
REF	123	Electrical Devices	3
REL	110	World Religions	3
REL	211	Introduction to Old Testament	3
REL	212	Introduction to New Testament	3
SEC	110	Security Concepts	3
SEC	160	Security Administration	3
SEC	260	Security Administration II	3

SOC	210	Introduction to Sociology	3
SOC	213	Sociology of the Family	3
SOC	220	Social Problems	3
SOC	225	Social Diversity	3
SOC	242	Sociology of Deviance	3
SPA	110	Introduction to Spanish	2
SPA	111	Elementary Spanish I	3
SPA	112	Elementary Spanish II	3
SPA	181	Spanish Lab I	1
SPA	182	Spanish Lab II	1
SPA	211	Intermediate Spanish I	3
SPA	212	Intermediate Spanish II	3
SPA	281	Spanish Lab III	1
SPA	282	Spanish Lab IV	1
SST	140	Green Building & Design Concepts	3
TRN	111	Chassis Maint./Light Repair	4
TRN	112	Powertrain Maint./Light Repair	4
TRN	120	Basic Transportation Electricity	5
TRN	140	Transportation Climate Control	2
TRN	140A	Transportation Climate Control Lab	2
TRN	170	PC Skills for Transportation	2
TRN	180	Basic Welding for Transportation	3
WBL	111	Work-Based Learning I	1
WBL	112	Work-Based Learning I	2
WBL	113	Work-Based Learning I	3
WBL	114	Work-Based Learning I	4
WBL	121	Work-Based Learning II	1
WBL	122	Work-Based Learning II	2
WBL	123	Work-Based Learning II	3
WBL	124	Work-Based Learning II	4
WBL	131	Work-Based Learning III	1
WBL	132	Work-Based Learning III	2
WBL	133	Work-Based Learning III	3
WBL	134	Work-Based Learning III	4
WBL	211	Work-Based Learning IV	1
WBL	212	Work-Based Learning IV	2
WBL	213	Work-Based Learning IV	3
WBL	214	Work-Based Learning IV	4
WEB	110	Internet/Web Fundamentals	3
WEB	111	Introduction to Web Graphics	3
WEB	115	Web Markup and Scripting	3
WEB	120	Introduction to Internet Multimedia	3
WEB	140	Web Development Tools	3
WEB	151	Mobile Application Dev. I	3
WEB	179	JAVA Web Programming	3
WEB	182	PHP Programming	3
WEB	210	Web Design	3
WEB	214	Social Media	3
WEB	225	Content Management Systems	3
WEB	230	Implementing Web Services	3
WEB	250	Database Driven Websites	3
WEB	285	Emerging Web Technologies	3
WEB	287	Web E-Portfolio	2
WLD	110	Cutting Processes	2
WLD	112	Basic Welding Processes	2
WLD	115	SMAW(Stick)Plate	5
WLD	116	SMAW(Stick)Plate/Pipe	4

WLD	121	GMAW(MIG)FCAW/Plate	4
WLD	131	GTAW(TIG)Plate	4
WLD	141	Symbols and Specifications	3
WLD	143	Welding Metallurgy	2
WLD	151	Fabrication I	4
WLD	261	Certification Practices	2

Healthcare Management Technology

A25200M (Associate Degree) C25200M (Certificate)

The Healthcare Management Technology curriculum prepares individuals for employment in healthcare business and financial operations in areas such as general healthcare management, entrepreneurship, and long-term care.

Course work includes medical office management, financial management, legal aspects of healthcare, medical insurance and billing analysis, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of healthcare settings including hospitals, medical offices, outpatient clinics, long-term care facilities, and insurance companies. Industry recognized certifications may be available for graduates with work experience.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

I. General Education Courses			Class	Lab	Credit
COM	120	Intro to Interpersonal Communication	3	0	3
ENG	111	Writing and Inquiry	3	0	3
ENG	112	Research & Writing	3	0	3
MAT	152	Statistical Methods I	3	2	4

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences:

Humanities: HUM-115 Critical Thinking; HUM-122 Southern Culture; or ART-111 Art Appreciation

Social/Behavioral Science: PSY-150 General Psychology or SOC-210 Introduction to Sociology

II. Major Courses					
ACC	120	Principles of Financial Accounting	3	2	4
ACC	121	Principles of Managerial Accounting	3	2	4
CIS	111	Basic PC Literacy	1	2	2
HMT	110	Intro to Healthcare Management	3	0	3
HMT	210	Medical Insurance	3	0	3
MED	121	Medical Terminology I	3	0	3
MED	122	Medical Terminology II	3	0	3
OST	149	Medical Legal Issues	3	0	3

III. Required Subject Area					
BUS	137	Principles of Management	3	0	3
BUS	153	Human Resource Management	3	0	3
BUS	253	Leadership & Management Skills	3	0	3
HMT	212	Management of Healthcare Org	3	0	3

IV. Other Major Courses					
HIT	114	Health Data Sys/Standards	2	3	3
HIT	217	Quality & Data Analytics	2	3	3
HMT	220	Healthcare Financial Management	4	0	4
HMT	225	Practice Mgmt. Simulation	2	2	3
WBL	111	Work-Based Learning I	0	10	1
WBL	121	Work-Based Learning II	0	10	1
WBL	131	Work-Based Learning III	0	10	1

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 70

Recommended Semester Schedule**First Year Fall**

ACA	115	Success and Study Skills	0	2	1
ENG	111	Writing & Inquiry	3	0	3
HMT	110	Intro to Healthcare Management	3	0	3
MED	121	Medical Terminology I	3	0	3
OST	149	Medical Legal Issues	3	0	3

First Year Spring

CIS	111	Basic PC Literacy	1	2	2
ENG	112	Writing/Research in Disc	3	0	3
HIT	114	Health Data Sys/Standards	2	3	3
MED	122	Medical Terminology II	3	0	3
MAT	152	Statistical Methods I	3	2	4

First Year Summer

COM	120	Intro to Interpersonal Communication	3	0	3
		Social Science Elective	3	0	3
		Humanities Elective	3	0	3

Second Year Fall

ACC	120	Principles of Financial Accounting	3	2	4
HMT	210	Medical Insurance	3	0	3
HMT	212	Management of Healthcare Organization	3	0	3
BUS	137	Principles of Management	3	0	3
BUS	253	Leadership & Management Skills	3	0	3

Second Year Spring

ACC	122	Principles Managerial Accounting	3	2	4
BUS	153	Human Resource Management	3	0	3
HIT	217	Quality & Data Analytics	2	3	3
HMT	220	Healthcare Financial Management ^(1st 8 weeks)	4	0	4
HMT	225	Practice Mgmt. Simulation ^(2nd 8 weeks)	2	2	3

Healthcare Management Technology Receptionist Certificate - C25200M**I. Major Courses**

HMT	110	Intro to Healthcare Management	3	0	3
MED	121	Medical Terminology I	3	0	3
MED	122	Medical Terminology II	3	0	3
OST	149	Medical Legal Issues	3	0	3

II. Concentration

BUS	253	Leadership & Management Skills	3	0	3
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III. Other Major

HIT	114	Health Data Sys/Standards	2	3	3
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Total Credits: 18

Recommended Semester Schedule

First Year Fall

HMT	110	Intro to Healthcare Management	3	0	3
MED	121	Medical Terminology I	3	0	3
OST	149	Medical Legal Issues	3	0	3

First Year Spring

BUS	253	Leadership & Management Skills	3	0	3
HIT	114	Health Data Sys/Standards	2	3	3
MED	122	Medical Terminology II	3	0	3

Healthcare Management Technology: Long-Term Care

A25200L (Associate Degree) C25200L (Certificate)

The Healthcare Management Technology curriculum prepares individuals for employment in healthcare business and financial operations in areas such as general healthcare management, entrepreneurship, and long-term care. Course work includes medical office management, financial management, legal aspects of healthcare, medical insurance and billing analysis, and other topics depending on the subject area selected within this curriculum. Graduates should qualify for employment opportunities in a variety of healthcare settings including hospitals, medical offices, outpatient clinics, long-term care facilities, and insurance companies. Industry recognized certifications may be available for graduates with work experience.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

I. General Education Courses			Class	Lab	Credit
COM	120	Intro to Interpersonal Communication	3	0	3
ENG	111	Writing and Inquiry	3	0	3
ENG	112	Research & Writing	3	0	3
MAT	152	Statistical Methods I	3	2	4

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences:

Humanities: HUM-115 Critical Thinking; HUM-122 Southern Culture; or ART-111 Art Appreciation

Social/Behavioral Science: PSY-150 General Psychology or SOC-210 Introduction to Sociology

II. Major Courses					
ACC	120	Principles of Financial Accounting	3	2	4
ACC	121	Principles of Managerial Accounting	3	2	4
CIS	111	Basic PC Literacy	1	2	2
HMT	110	Intro to Healthcare Management	3	0	3
HMT	210	Medical Insurance	3	0	3
MED	121	Medical Terminology I	3	0	3
MED	122	Medical Terminology II	3	0	3
OST	149	Medical Legal Issues	3	0	3

III. Required Subject Area					
GRO	120	Gerontology	3	0	3
HMT	211	Long-Term Care Administration	3	0	3
HMT	212	Management of Healthcare Organization	3	0	3
OST	250	Long-Term Care Coding	3	0	3

IV Other Major Courses					
HIT	114	Health Data Sys/Standards	2	3	3
HIT	217	Quality & Data Analytics	2	3	3
HMT	220	Healthcare Financial Management	4	0	4
HMT	225	Practice Mgmt. Simulation	2	2	3

V. Other Required Courses					
ACA	115	Success and Study Skills	0	2	1

Total Credits: 70

Recommended Semester Schedule

First Year Fall

ACA	115	Success and Study Skills	0	2	1
ENG	111	Writing & Inquiry	3	0	3
HMT	110	Intro to Healthcare Management	3	0	3
MED	121	Medical Terminology I	3	0	3
OST	149	Medical Legal Issues	3	0	3

First Year Spring

CIS	111	Basic PC Literacy	1	2	2
ENG	112	Writing/Research in Disc	3	0	3
HIT	114	Health Data Sys/Standards	2	3	3
MED	122	Medical Terminology II	3	0	3
MAT	152	Statistical Methods	3	2	4

First Year Summer

COM	120	Intro to Interpersonal Communication	3	0	3
		Social Science Elective	3	0	3
		Humanities Elective	3	0	3

Second Year Fall

ACC	120	Principles of Financial Accounting	3	2	4
HMT	210	Medical Insurance	3	0	3
HMT	212	Management of Healthcare Organization	3	0	3
GRO	120	Gerontology	3	0	3
OST	250	Long-Term Care Coding	2	2	3

Second Year Spring

ACC	122	Principles of Managerial Accounting	3	2	4
HMT	211	Long-Term Care Administration	3	0	3
HIT	217	Quality & Data Analytics	2	3	3
HMT	220	Healthcare Financial Management	4	0	4
HMT	225	Practice Mgmt. Simulation	2	2	3

Healthcare Management Technology Long-Term Care - Certificate C25200L

IV. Major Courses

HMT	110	Intro to Healthcare Management	3	0	3
MED	121	Medical Terminology I	3	0	3
OST	149	Medical Legal Issues	3	0	3

V. Concentration

GRO	120	Gerontology	3	0	3
HMT	211	Long-Term Care Admin	3	0	3
OST	250	Long-Term Care Coding	2	2	3

Total Credits: 18

Recommended Semester Schedule

First Year Fall

HMT	110	Intro to Healthcare Management	3	0	3
MED	121	Medical Terminology I	3	0	3
OST	149	Medical Legal Issues	3	0	3

First Year Spring

GRO	120	Gerontology	3	0	3	
HMT	211	Long-Term Care Admin	3	0	3	
OST	250	Long-Term Care Coding		2	2	3

Health Information Technology

A45360 (Associate) D45360 (Diploma)
C45360A (Certificate) C45360B (Certificate)
C45360IF (Certificate)

The Health Information Technology Curriculum is designed to provide individuals with the technical knowledge and skills to process, analyze, maintain, and report health information data in compliance with legal, accreditation, licensure and certification standards.

Course work includes diagnosis and procedure coding/classification systems, privacy and security strategies, health informatics, data analytics and use, revenue cycle management, regulatory compliance, and organizational leadership.

Graduates of this program may be eligible to write the national certification exam to become a Registered Health Information Technician (RHIT). Employment opportunities include hospitals, rehabilitation facilities, nursing homes, health insurance organizations, outpatient clinics, physicians' offices, hospice, and mental health facilities

****The Health Information Technology program is accredited by the Commission on the Accreditation for Health Informatics and Information Management (CAHIIM) Education**.**

Please visit the McDowell Technical Community College Health Science website for current admission information:

<http://www.mcdowelltech.edu/HIT/>

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program (A45360)

Title			Class/Lab/Credit		
I. General Education Courses					
ENG	111	Writing and Inquiry	3	0	3
ENG	112	Writing/Research in the Discipline	3	0	3
MAT	152	Statistical Methods I	3	2	4

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Major Courses			Class	Lab	Clin.	Credit
Required Courses:						
HIT	110	Introduction to Healthcare & HIM	3	0	0	3
HIT	112	Health Law and Ethics	3	0	0	3
HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	211	Diagnosis Coding & Reporting	2	3	0	3
HIT	213	INPT Procedure Coding & Reporting	1	3	0	2
HIT	214	OP Procedure Coding & Reporting	1	3	0	2
HIT	215	Revenue Cycle Management	1	3	0	2
HIT	217	Quality & Data Analysis	2	3	0	3
HIT	218	Management Principles in HIT	3	0	0	3
HIT	226	Pathophysiology & Pharmacology	2	3	0	3
HIT	280	HIM Capstone	2	0	0	2
Required Subject Area:						
Medical Terminology						
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3

Anatomy & Physiology						
BIO	163	Basic Anatomy & Physiology	4	2	0	5
Professional Practice Experience						
HIT	122	Professional Practice Experience I	0	0	3	1
HIT	124	Professional Practice Experience II	0	0	3	1
HIT	222	Professional Practice Experience III	0	0	6	2

III. Other Major Courses

CIS	111	Basic PC Literacy	1	2	0	2
HIT	220	Electronic Health Records	1	2	0	2
HIT	221	Lifecycle of EHR	2	2	0	3
HIT	227	Informatics Project Management	2	2	0	3

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	0	1
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Total Credits: 71

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	5
CIS	111	Basic PC Literacy	1	2	0	2
HIT	110	Introduction to Healthcare & HIM	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3

First Year-Spring

ENG	111	Writing and Inquiry	3	0	0	3
HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	211	Diagnosis Coding & Reporting	2	3	0	3
MAT	152	Statistical Methods I		3	2	4
MED	122	Medical Terminology II	3	0	0	3

First Year-Summer

ENG	112	Writing/Research in the Discipline	3	0	0	3
HIT	112	Health Law and Ethics	3	0	0	3
PSY	150	General Psychology	3	0	0	3
Humanities/Art Elective-see list on page 76			3	0	0	3

Second Year-Fall

HIT	122	Professional Practice Experience I	0	0	3	1
HIT	124	Professional Practice Experience II	1	0	3	1
HIT	213	INPT Procedure Coding & Reporting	1	3	0	2
HIT	215	Revenue Cycle Management	1	3	0	2
HIT	218	Management Principles in HIT	3	0	0	3
HIT	220	Electronic Health Records	1	2	0	2
HIT	226	Pathophysiology	2	3	0	3

Second Year-Spring

HIT	214	OP Procedure Coding & Reporting	1	3	0	2
HIT	217	Quality & Data Analysis	2	3	0	3
HIT	221	Lifecycle of EHR	2	2	0	3
HIT	222	Professional Practice Experience III	0	0	6	2
HIT	227	Informatics Project Management	2	2	0	3
HIT	280	HIM Capstone	2	0	0	2

Health Information Technology Coding Diploma (D45360)
Medical Coding Concentration

Title			Class	Lab	Clin.	Credit
I. General Education Courses						
ENG	111	Writing and Inquiry	3	0	0	3
MAT	152	Statistical Methods I	3	0	2	4
II. Major Courses						
HIT	112	Health Law and Ethics	3	0	0	3
HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	211	Diagnosis Coding & Reporting	2	3	0	3
HIT	213	INPT Procedure Coding & Reporting	1	3	0	2
HIT	214	OP Procedure Coding & Reporting	1	3	0	2
HIT	215	Revenue Cycle Management	1	3	0	2
HIT	226	Pathophysiology & Pharmacology	2	3	0	3
Required Subject Area:						
Medical Terminology						
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
Anatomy & Physiology						
BIO	163	Basic Anatomy & Physiology	4	2	0	5
Professional Practice Experience						
HIT	124	Professional Practice Experience II	0	0	3	1
HIT	222	Professional Practice Experience III	0	0	6	2
III. Other Required Courses						
ACA	115	Success and Study Skills	0	2	0	1

Total Credits: 40

Recommended Semester Schedule

Title			Class	Lab	Clin.	Credit
First Year-Fall						
ACA	115	Success and Study Skills	0	2	0	1
BIO	163	Basic Anatomy & Physiology	4	2	0	5
ENG	111	Writing and Inquiry	3	0	0	3
HIT	213	INPT Procedure Coding & Reporting	1	3	0	2
HIT	215	Revenue Cycle Management	1	3	0	2
MED	121	Medical Terminology I	3	0	0	3
First Year-Spring						
HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	211	Diagnosis Coding & Reporting	2	3	0	3
HIT	214	OP Procedure Coding & Reporting	1	3	0	2
HIT	222	Professional Practice Experience III	0	0	6	2
MAT	152	Statistical Methods I	3	0	2	4
MED	122	Medical Terminology II	3	0	0	3
First Year-Summer						
HIT	112	Health Law and Ethics	3	0	0	3
HIT	124	Professional Practice Experience II	0	0	3	1
HIT	226	Pathophysiology & Pharmacology	2	3	0	3

Health Information Technology Certificate Program (C45360A)
Release of Information Concentration

Title			Class	Lab	Clin.	Credit
I. Major Courses						
HIT	110	Introduction to Healthcare and HIM	3	0	0	3
HIT	112	Health Law & Ethics	3	0	0	3
HIT	114	Health Data Systems/Standards	2	3	0	3
Required Subject Area:						
Medical Terminology						
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
II. Other Major Courses						
CIS	111	Basic PC Literacy	1	2	0	2
Total Credits: 17						

Recommended Semester Schedule

First Year-Summer						
HIT	112	Health Law Ethics	3	0	0	3
First Year-Fall						
CIS	111	Basic PC Literacy	1	2	0	2
HIT	110	Introduction to Healthcare and HIM	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
First Year-Spring						
HIT	114	Health Data Systems/Standards	2	3	0	3
MED	122	Medical Terminology II	3	0	0	3

Health Information Technology Certificate (C45360B)
Concentration in Medical Billing and Coding

Title			Class	Lab	Clin.	Credit
I. Major Courses						
HIT	215	Revenue Cycle Management	1	3	0	2
Required Subject Area:						
Medical Terminology						
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
Professional Practice Experience						
HIT	124	Professional Practice Experience II	0	0	3	1
II. Other Major Courses						
OST	247	Procedural Coding	2	2	0	3
OST	248	Diagnostic Coding	2	2	0	3
OST	249	Medical Coding Certification Prep	2	3	0	3
Total Credits: 18						

Recommended Semester Schedule

First Year-Fall

HIT	215	Revenue Cycle Management	1	3	0	2
MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3

First Year-Spring

OST	247	Procedural Coding	2	2	0	3
OST	248	Diagnostic Coding	2	2	0	3

First Year-Summer

HIT	124	Professional Practice Experience	0	0	3	1
OST	249	Medical Coding Certification Prep	2	3	0	3

Health Information Technology Certificate(C45360-IF) *Healthcare Informatics Concentration*

Title			Class	Lab	Clin.	Credit
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I. Major Courses

HIT	112	Health Law and Ethics	3	0	0	3
HIT	114	Health Data Systems/Standards	2	3	0	3

II. Other Major Courses

HIT	220	Electronic Health Records	1	2	0	2
HIT	221	Lifecycle of EHR	2	2	0	3
HIT	225	Healthcare Informatics	2	2	0	3
HIT	227	Informatics Project Management	2	2	0	3

Total Credits: 17

Recommended Semester Schedule

First Year-Summer

HIT	112	Health Law Ethics	3	0	0	3
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First Year-Fall

HIT	220	Electronic Health Records	1	2	0	2
HIT	225	Healthcare Informatics	2	2	0	3

First Year-Spring

HIT	114	Health Data Systems/Standards	2	3	0	3
HIT	221	Lifecycle of EHR	2	2	0	3
HIT	227	Informatics Project Management	2	2	0	3

Health Science: Therapeutic and Diagnostic Services/Nurse Aide

D45970 (Diploma)

This curriculum is designed to prepare students for careers in the Health Sciences.

Students will complete general education courses that provide a foundation for success in nursing and allied health curricula. Students may select a career pathway that will prepare them for an entry level position in health care. Courses may also provide foundational knowledge needed in the pursuit of advanced health science degrees or programs.

Graduates should qualify for an entry-level job associated with the program major such as Nurse Aide.

Nurse Aide: The Nurse Aide curriculum prepares individuals to work under the supervision of licensed nursing professionals in performing nursing care and services for persons of all ages. Topics include growth and development, personal care, vital signs, communication, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management, family resources and services, and employment skills. Upon completion, the student may be eligible for listing as a Nurse Aide I and other selected Nurse Aide registries as determined by the local program of study.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Diploma Program

Title			Class/Lab/Clinical/Credit			
I. General Education Courses						
ENG 111	Writing and Inquiry		3	0	0	3
PSY 150	General Psychology		3	0	0	3
II. Major Courses						
NAS 101	Nurse Aide I		3	4	3	6
NAS 102	Nurse Aide II		3	2	6	6
MED 121	Medical Terminology I		3	0	0	3
MED 122	Medical Terminology II		3	0	0	3
III. Other Major Courses						
BIO 168	Anatomy and Physiology I		3	3	0	4
BIO 169	Anatomy and Physiology II		3	3	0	4
CIS 110	Introduction to Computers		2	2	0	3
PSY 241	Developmental Psychology		3	0	0	3
IV. Other Required Courses						
ACA 115	Success and Study Skills		0	2	0	1

Total Credits: 39

Recommended Semester Schedule

First Year-Fall

			Class/Lab/Clinical/Credit			
NAS	101	Nurse Aide I	3	4	3	6
ACA	115	Success and Study Skills	0	2	0	1
ENG	111	Writing and Inquiry	3	0	0	3
MED	121	Medical Terminology I	3	0	0	3
BIO	168	Anatomy and Physiology I	3	3	0	4

Spring Semester

BIO	169	Anatomy and Physiology II	3	3	0	4
MED	122	Medical Terminology II	3	0	0	3
NAS	102	Nurse Aide II	3	2	6	6
PSY	150	General Psychology	3	0	0	3

Summer Semester

CIS	110	Introduction to Computers	2	2	0	3
PSY	241	Developmental Psychology	3	0	0	3

Information Technology: Information Systems

A25590A (Associate Degree) C25590A (Certificate)

C25590B (Certificate)

Information Systems is a curriculum within the Information Technology Pathway:

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Information Systems Associate Degree Program (A25590A)

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communication	3	0	3
or					
ENG	111	Writing and Inquiry	3	0	3
COM	231	Public Speaking	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Major Courses

CIS	110	Introduction to Computers	2	2	3
CTI	110	Web, Pgm, and Db Foundation	2	2	3
CTI	120	Network & Sec Foundation	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3

III. Concentration

CTS	120	Hardware/Software Support	2	3	3
NOS	120	Linux/Unix Single User	2	2	3
NOS	130	Windows Single User	2	2	3
NOS	230	Windows Admin I	2	2	3

IV. Other Major Courses

Take 25 Credits

ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
CSC	134	C++ Programming	2	3	3
CSC	151	Java Programming	2	3	3
DBA	110	Database Concepts	2	3	3
NET	125	Introduction to Networks	1	4	3
WEB	115	Web Markup and Scripting	2	3	3
WEB	214	Social Media	2	3	3

Take 3 credits from:

CTS	130	Spreadsheet	2	2	3
ELN	233	Microprocessor Systems	3	3	4
NOS	110	Operating Systems Concepts	2	3	3
OST	136	Word Processing	2	2	3
WEB	120	Introduction to Internet Multimedia	2	2	3
WEB	225	Content Management Systems	2	2	3

Take 3 credits from:

WEB	111	Intro to Web Graphics	2	2	3
WEB	140	Web Development Tools	2	3	3
WEB	210	Web Design	2	2	3
WEB	285	Emerging Web Technologies	2	2	3

Take 2 credits from:

OST	286	Professional Development	3	0	3
WEB	287	Web E-Portfolio	1	3	2

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 73***Recommended Semester Schedule*****First Year-Fall**

ACA	115	Success and Study Skills	0	2	1
CIS	110	Intro to Computers	2	2	3
CTI	110	Web, Pgm, & Db Foundation	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3
NET	125	Introduction to Networks	1	4	3
WEB	115	Web Markup and Scripting	2	3	3

First Year-Spring

COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
CTS	120	Hardware/Software Support	2	3	3
DBA	110	Database Concepts	2	3	3
NOS	130	Windows Single User	2	2	3

Pick List 1(Select one)

CTS	130	Spreadsheet	2	2	3
NOS	110	Operating Systems Concepts	2	3	3
ELN	233	Fundamentals of Microprocessors	3	3	4
OST	136	Word Processing	2	2	3
WEB	120	Intro Internet Multimedia	2	2	3
WEB	225	Content Management System	2	2	3

First Year-Summer

CSC	151	Java Programming	2	3	3
Humanities Elective			3	0	3
Social Science Elective			3	0	3

Second Year-Fall

ACC	120	Prin Fin Accounting	3	2	4
NOS	120	Linux/Unix Single User	2	2	3
NOS	230	Windows Admin I	2	2	3

Pick List 2(Select one)

WEB	111	Web Graphics	2	2	3
WEB	140	Web Development Tools	2	3	3
WEB	210	Web Design	2	2	3
WEB	285	Emerging Web Technologies	2	2	3

Second Year-Spring

BUS	110	Intro to Business	3	0	3
CSC	134	C++ Programming	2	3	3
CTI	120	Network & Security Foundation	2	2	3
WEB	214	Social Media	2	3	3

Pick List 3(Select one)

WEB	287	Web E-Portfolio	1	3	2
OST	286	Professional Development	3	0	3

Second Year-Summer

ENG	111	Expository Writing	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Information Systems Certificate (C25590A)

Title	Class/Lab/Credit				
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I. Major Courses

CIS	110	Introduction to Computers	2	2	3
CTS	120	Hardware/Software Support	2	3	3
NOS	130	Windows Single User	2	2	3

III. Other Major Courses

WEB	115	Web Markup and Scripting	2	3	3
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Total Credits: 12***Recommended Semester Schedule*****First Year-Fall**

CIS	110	Intro to Computers	2	2	3
WEB	115	Web Markup and Scripting	2	3	3

First Year-Spring

NOS	130	Windows Single User	2	2	3
CTS	120	Hardware/Software Support	2	3	3

Information Systems Advanced Certificate (C25590B)

Title			Class/Lab/Credit		
I. Major Courses					
CTI	120	Network & Sec Foundation	2	2	3
NOS	120	Linux/Unix Single User	2	2	3
NOS	230	Windows Admin I	2	2	3

III. Other Major Courses

CSC	151	JAVA Programming	2	3	3
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Total Credits: 12

Recommended Semester Schedule

First Year-Fall

NOS	230	Windows Admin I	2	2	3
NOS	120	Linux/Unix Single User	2	2	3

First Year-Spring

CSC	151	Java Programming	2	3	3
CTI	120	Network & Sec Foundation	2	2	3

Information Technology: Software and Web Development

A25590C (Associate Degree)
C25590E (Certificate) C25590F (Certificate)

Software and Web Development is a curriculum within the Information Technology Pathway: The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Software and Web Development Associate Degree Program (A25590C)

Title			Class/Lab/Credit		
I. General Education Courses					
ENG	111	Writing and Inquiry	3	0	3
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
MAT	143	Quantitative Literacy	2	2	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences					
II. Major Courses					
CIS	110	Introduction to Computers	2	2	3
CTI	110	Web, Pgm,and Db Foundation	2	2	3
CTI	120	Network & Sec Foundation	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3
III. Concentration					
CSC	151	Java Programming	2	3	3
WEB	115	Web Markup and Scripting	2	3	3
IV. Other Major Courses					
DBA	110	Database Concepts	2	3	3
GRD	151	Computer Design Basics	1	4	3
GRD	152	Computer Design Tech I	1	4	3
WEB	111	Intro to Web Graphics	2	2	3
WEB	120	Intro to Internet Multimedia	2	2	3
WEB	140	Web Development Tools	2	3	3
WEB	151	Mobile Application Dev I	2	3	3
WEB	182	PHP Programming	2	3	3

WEB	210	Web Design	2	2	3
WEB	225	Content Management Systems	2	2	3
WEB	250	Database Driven Websites	2	2	3
WEB	285	Emerging Web Technologies	2	2	3
WEB	287	Web E-Portfolio	1	3	2

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 72

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
CIS	110	Intro to Computers	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3
CTI	110	Web, Pgm, & Db Foundation	2	2	3
WEB	111	Intro to Web Graphics	2	2	3
WEB	115	Web Markup & Scripting	2	3	3

First Year-Spring

CSC	151	Java Programming	2	3	3
DBA	110	Database Concepts	2	3	3
WEB	120	Intro Internet Multimedia	2	2	3
WEB	225	Content Management System	2	2	3

First Year-Summer

COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
Humanities Elective			3	0	3
Social Science Elective			3	0	3

Second Year-Fall

GRD	151	Computer Design Basics	1	4	3
WEB	140	Web Development Tools	2	3	3
WEB	182	PHP Programming	2	3	3
WEB	210	Web Design	2	2	3
WEB	285	Emerging Web Technologies	2	2	3

Second Year-Spring

CTI	120	Network & Security Foundation	2	2	3
GRD	152	Computer Design Tech I	1	4	3
WEB	151	Mobile Application Dev I	2	3	3
WEB	250	Database Driven Websites	2	2	3
WEB	287	Web E-Portfolio	1	3	2

Second Year-Summer

ENG	111	Expository Writing	3	0	3
MAT	143	Quantitative Literacy	2	2	3

***Software and Web Development
Certificate Program (C25590E)***

<u>Title</u>			<u>Class/Lab/Credit</u>		
I. Major Courses					
CSC	151	Java Programming	2	3	3
WEB	115	Web Markup and Scripting	2	3	3
II. Other Major Courses					
DBA	110	Database Concepts	2	3	3
WEB	111	Intro to Web Graphics	2	2	3
Total Credits: 12					

Recommended Semester Schedule

<u>First Year-Fall</u>					
WEB 111		Web Graphics	2	2	3
WEB 115		Web Markup and Scripting	2	3	3
<u>First Year-Spring</u>					
CSC 151		Java Programming	2	3	3
DBA 110		Database Concepts	2	3	3

***Software and Web Development Advanced
Certificate Program (C25590F)***

<u>Title</u>			<u>Class/Lab/Credit</u>		
I. Major Courses					
CTI	120	Network & Sec Foundation	2	2	3
II. Other Major Courses					
WEB	182	PHP Programming	2	3	3
WEB	210	Web Design	2	2	3
WEB	250	Database Driven Websites	2	2	3
Total Credits: 12					

Recommended Semester Schedule

<u>First Year-Fall</u>					
WEB	182	PHP Programming	2	3	3
WEB	210	Web Design	2	2	3
<u>First Year-Spring</u>					
CTI	120	Network & Sec Foundation	2	2	3
WEB	250	Database Driven Websites	2	2	3

Information Technology: Web Administration & Design

A25590D (Associate Degree)
C25590G (Certificate) C25590H (Certificate)

Web Administration & Design is a curriculum within the Information Technology Pathway:

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Web Administration & Design Associate Degree Program (A25590D)

<u>Title</u>	<u>Class/Lab/Credit</u>
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I. General Education Courses

ENG	111	Writing and Inquiry	3	0	3
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Major Courses

CIS	110	Introduction to Computers	2	2	3
CTI	110	Web, Pgm, and Db Foundation	2	2	3
CTI	120	Network & Sec Foundation	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3

III. Concentration

WEB	115	Web Markup and Scripting	2	3	3
WEB	210	Web Design	2	2	3

IV. Other Major Courses

CSC	151	Java Programming	2	3	3
DBA	110	Database Concepts	2	3	3
GRD	151	Computer Design Basics	1	4	3
GRD	152	Computer Design Tech I	1	4	3
WEB	111	Intro to Web Graphics	2	2	3
WEB	120	Intro to Internet Multimedia	2	2	3
WEB	140	Web Development Tools	2	3	3
WEB	151	Mobile Application Dev I	2	3	3
WEB	182	PHP Programming	2	3	3
WEB	214	Social Media	2	3	3

WEB	250	Database Driven Websites	2	2	3
WEB	285	Emerging Web Technologies	2	2	3
WEB	287	Web E-Portfolio	1	3	2

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 72

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
CIS	110	Intro to Computers	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3
CTI	110	Web, Pgm, & Db Foundation	2	2	3
WEB	111	Intro to Web Graphics	2	2	3
WEB	115	Web Markup & Scripting	2	3	3

First Year-Spring

CSC	151	Java Programming	2	3	3
DBA	110	Database Concepts	2	3	3
WEB	120	Intro Internet Multimedia	2	2	3
WEB	214	Social Media	2	3	3

First Year-Summer

COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
Humanities		Elective	3	0	3
Social Science		Elective	3	0	3

Second Year-Fall

GRD	151	Computer Design Basics	1	4	3
WEB	140	Web Development Tools	2	3	3
WEB	182	PHP Programming	2	3	3
WEB	210	Web Design	2	2	3
WEB	285	Emerging Web Technologies	2	2	3

Second Year-Spring

CTI	120	Network & Security Foundation	2	2	3
GRD	152	Computer Design Tech I	1	4	3
WEB	151	Mobile Application Dev I	2	3	3
WEB	250	Database Driven Websites	2	2	3
WEB	287	Web E-Portfolio	1	3	2

Second Year-Summer

ENG	111	Expository Writing	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Web Administration & Design Certificate Program (C25590G)

Title	Class/Lab/Credit
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I. Major Courses

WEB	115	Web Markup and Scripting	2	3	3
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II. Other Major Courses

WEB	111	Intro to Web Graphics	2	2	3
WEB	120	Intro to Internet Multimedia	2	2	3
WEB	214	Social Media	2	3	3

Total Credits: 12**First Year-Fall**

WEB 111	Web Graphics	2	2	3
WEB 115	Web Markup and Scripting	2	3	3

First Year-Spring

WEB 120	Intro Internet Multimedia	2	2	3
WEB 214	Social Media	2	3	3

***Web Administration & Design Advanced
Certificate Program (C25590H)***

Title	Class/Lab/Credit
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I. Major Courses

CTI	120	Network & Sec Foundation	2	2	3
WEB	210	Web Design	2	2	3

II. Other Major Courses

GRD	151	Computer Design Basics	1	4	3
GRD	152	Computer Design Tech I	1	4	3

Total Credits: 12**First Year-Fall**

GRD	151	Computer Design Basics	1	4	3
WEB	210	Web Design	2	2	3

First Year-Spring

CTI	120	Network & Sec Foundation	2	2	3
GRD	152	Computer Design Tech I	1	4	3

Mechatronics Engineering Technology

A40350 (Associate Degree), D40350 (Diploma), C40350A (Certificate), C40350B (Certificate)

A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79

II. Technical Core Courses

A. Major Core

EGR	125	Appl Software for Tech	1	2	2
ISC	112	Industrial Safety	2	0	2

III. Concentration

ATR	112	Intro to Automation	2	3	3
DFT	119	Basic CAD	1	2	2
ELC	128	Intro to PLC	2	3	3
ELC	130	Advanced Motors/Controls	2	2	3
ELC	131	Circuit Analysis I	3	3	4
ELC	213	Instrumentation	3	2	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
MEC	130	Mechanisms	2	2	3
PHY	131	Physics-Mechanics	3	2	4

IV. Other Major Courses

Take 8 credits

MAC	121	Intro to CNC	2	0	2
MNT	110	Intro to Maintenance Processes	1	3	2
PCI	264	Process Controls with PLC's	3	3	4
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	113	Work-Based Learning I	0	30	3
WBL	114	Work-Based Learning I	0	40	4
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	123	Work-Based Learning II	0	30	3
WBL	124	Work-Based Learning II	0	40	4
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	133	Work-Based Learning III	0	30	3
WBL	134	Work-Based Learning III	0	40	4

WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2
WBL	213	Work-Based Learning IV	0	30	3
WBL	214	Work-Based Learning IV	0	40	4

Take 8 credits

BPR	135	Schematics and Diagrams	2	0	2
EGR	150	Introduction to Engineering	1	2	2
ELC	115	Industrial Wiring	2	6	4
MNT	160	Industrial Fabrication	1	3	2

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 66

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
ATR	112	Intro to Automation	2	3	3
EGR	125	Appl. Software for Tech	1	2	2
ELC	131	Circuit Analysis	3	3	4
HYD	110	Hydraulics/Pneumatics	2	3	3
ISC	112	Industrial Safety	1	0	2

First Year-Spring

BPR	135	Schematics and Diagrams	2	0	2
DFT	119	Basic CAD	1	2	2
ELC	128	Intro to PLC	2	3	3
ENG	111	Writing and Inquiry	3	0	3
MNT	110	Intro to Maintenance Processes	1	3	2

First Year-Summer

MAT	121	Algebra/Trigonometry I	2	2	3
Social Science Elective – see page75			3	0	3
Humanities/Fine Arts Elective – see list on page75			3	0	3

Second Year-Fall

ELC	130	Adv Motors/Controls	2	2	3
ELC	213	Instrumentation	3	2	4
MAC	121	Introduction to CNC	2	0	2
MEC	130	Mechanisms	2	2	3
PCI	264	Process Controls with PLC's	3	3	4

Second Year-Spring

ACA	220	Professional Transition	1	0	1
COM	120	Interpersonal Communication	3	0	3
EGR	150	Intro to Engineering	1	2	2
ELC	115	Industrial Wiring	2	6	4
PHY	131	Physics – Mechanics	3	2	4

Note: WBL 111, 112, 113, 114, 121, 122, 123, 124, 131, 132, 133, 134, 211, 212, 213, 214 may count for any of the following:
MNT 110, BPR 135, PCI 264, EGR 150, ELC 115

Mechatronics Engineering Technology Diploma Program (D40350)

I. General Education Courses

ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3

II. Major Courses

A. Core Courses

ATR	112	Intro to Automation	2	3	3
DFT	119	Basic CAD	1	2	2
EGR	125	Appl. Software for Tech	1	2	2
ELC	128	Intro to PLC	2	3	3
ELC	131	Circuit Analysis I	3	3	4
ELC	213	Instrumentation	3	2	4
HYD	110	Hydraulics/Pneumatics I	2	3	3
ISC	112	Industrial Safety	2	0	2
PHY	131	Physics – Mechanics	3	2	4

III. Other Major Courses

Take 4 credits

MAC	121	Introduction to CNC	2	0	2
MNT	110	Intro to Maintenance Processes	1	3	2
MNT	160	Industrial Fabrication	1	3	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1
Total Credits:			39		

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
EGR	125	Appl. Software for Tech	1	2	2
ELC	131	Circuit Analysis	3	3	4
HYD	110	Hydraulics/Pneumatics	2	3	3
ISC	112	Industrial Safety	1	0	2

First Year-Spring

DFT	119	Basic CAD	1	2	2
ELC	128	Intro to PLC	2	3	3
MNT	110	Intro to Maintenance Processes	1	3	2
PHY	131	Physics – Mechanics	3	2	4

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3

Second Year-Fall

ACA	220	Professional Transition	1	0	1
ATR	112	Intro to Automation	2	3	3
ELC	213	Instrumentation	3	2	4
MAC	121	Introduction to CNC	2	0	2

Mechatronics Engineering Technology Certificate Program (C40350A) Level I**I. Major Courses**

ATR	112	Intro to Automation	2	3	3
DFT	119	Basic CAD	1	2	2
EGR	125	Appl Software for Tech	1	2	2
EGR	150	Introduction to Engineering	1	2	2
ELC	128	Intro to PLC	2	3	3
Total Credits:			12		

Recommended Semester Schedule**First Year-Fall**

ATR	112	Intro to Automation	2	3	3
EGR	125	Appl Software for Tech	1	2	2

First Year-Spring

DFT	119	Basic CAD	1	2	2
EGR	150	Introduction to Engineering	1	2	2
ELC	128	Intro to PLC	2	3	3

Mechatronics Engineering Technology Certificate Program (C40350B) Level II**I. Major Courses**

ATR	112	Intro to Automation	2	3	3
DFT	119	Basic CAD	1	2	2
EGR	125	Appl Software for Tech	1	2	2
EGR	150	Introduction to Engineering	1	2	2
ELC	128	Intro to PLC	2	3	3
HYD	110	Hydraulics/Pneumatics I	2	3	3
MNT	110	Intro to Maintenance Processes	1	3	2
Total Credits:			17		

Recommended Semester Schedule**First Year-Fall**

ATR	112	Intro to Automation	2	3	3
EGR	125	Appl Software for Tech	1	2	2
HYD	110	Hydraulics/Pneumatics	2	3	3

First Year-Spring

DFT	119	Basic CAD	1	2	2
EGR	150	Introduction to Engineering	1	2	2
ELC	128	Intro to PLC	2	3	3
MNT	110	Intro to Maintenance Processes	1	3	2

Nurse Aide

C45840 (Certificate)

The Nurse Aide curriculum prepares individuals to work under the supervision of licensed nursing professionals in performing nursing care and services for persons of all ages.

Topics include growth and development, personal care, vital signs, communication, nutrition, medical asepsis, therapeutic activities, accident and fire safety, household environment and equipment management, family resources and services, and employment skills.

Upon completion, the student may be eligible for listing as a Nurse Aide I and other selected Nurse Aide registries as determined by the local program of study.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Clinical/Credit
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I. Major Courses

MED	121	Medical Terminology I	3	0	0	3
MED	122	Medical Terminology II	3	0	0	3
NAS	101	Nurse Aide I	3	4	3	6
NAS	102	Nurse Aide II	3	2	6	6

Total Credits: 18

Recommended Semester Schedule

First Year-Fall

NAS	101	Nurse Aide I	3	4	3	6
MED	121	Medical Terminology I	3	0	0	3

First Year-Spring

NAS	102	Nurse Aide II	3	2	6	6
MED	122	Medical Terminology II	3	0	0	3

Isothermal Community College is the administrative unit and the central location of the three colleges. The commuting

Associate Degree Nursing

A45110 (Associate Degree)

The Associate Degree Nursing 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.

Program Student Learning Outcomes

Upon completion of the Associate Degree Nursing Program, the graduate will upon licensure:

1. Practice professional nursing behaviors incorporating personal responsibility and accountability for continued competence.
2. Communicate professionally and effectively with individuals, significant support person(s), and members of the interdisciplinary healthcare team.
3. Integrate knowledge of the holistic needs of the individual to provide an individual centered assessment.
4. Incorporate informatics to formulate evidence-based clinical judgements and management decisions.
5. Implement caring interventions incorporating documented best practices for individuals in diverse settings.
6. Develop a teaching plan for individuals, and/or the nursing team, incorporating teaching and learning principles.
7. Collaborate with the interdisciplinary healthcare team to advocate for positive individual and organizational outcomes.
8. Manage health care for the individual using cost effective nursing strategies, quality improvement processes, and current technologies.

The McDowell Tech Associate Degree Nursing (AD Nursing) program is approved by the NC Community College System Office and the NC Board of Nursing.

Characteristics of the AD Nursing program:

- a) will prepare students to apply to sit for the National Council Licensure Examination (NCLEX-RN) which is required to practice as a registered nurse.
- b) is designed for five sequential semesters in length.
- c) will be separate from the existing practical nurse programs.

Please schedule an appointment with the Pre-Nursing Health Sciences Advisor for complete admission information and to obtain an admission packet.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Clinical/Credit
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I. General Education Courses

BIO	168	Anatomy and Physiology I	3	3	0	4
BIO	169	Anatomy and Physiology II	3	3	0	4
BIO	175	General Microbiology	2	2	0	3
ENG	111	Writing and Inquiry	3	0	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
PSY	150	General Psychology	3	0	0	3
PSY	241	Developmental Psychology	3	0	0	3

Humanities Elective-Select one from the list below:	3	0	0	3
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ART 111, ART 114, ART 115, MUS 110, MUS 112, PHI 215, PHI 240, or HUM 115

II. Major Courses

NUR	111	Introduction to Health Concepts	4	6	6	8
NUR	112	Health-Illness Concepts	3	0	6	5
NUR	113	Family Health Concepts	3	0	6	5
NUR	114	Holistic Health Concepts	3	0	6	5
NUR	211	Health Care Concepts	3	0	6	5
NUR	212	Health System Concepts	3	0	6	5
NUR	213	Complex Health Concepts	4	3	15	10
NUR	214*	Nsg. Transition Concepts	3	0	3	4

*LPN to ADN students: All LPN to ADN students must complete NUR-214. For LPN to ADN students only (LPN's completing the traditional, non-concept based Practical Nursing diploma will be required to complete NUR 211 in addition to NUR 214.)

III. Other Required Courses - Select 1 credit hour

(Maximum of 7 shc for AAS, 4 shc for diploma and 1 shc for certificate)

(Includes free electives, orientation, and/or study skills courses)

ACA	115	Success and Study Skills	0	2	0	1
ACA	122	College Transfer Success	0	2	0	1

Total Credits: 70

Recommended Semester Schedule

Students are not allowed to enroll in the NUR courses until formally accepted into the program. Please see admission requirements.

First Year-Fall

ACA	115	College Student Success	0	2	0	1
BIO	168	Anatomy & Physiology I	3	3	0	4
NUR	111	Introduction to Health Concepts	4	6	6	8
PSY	150	General Psychology	3	0	0	3

First Year-Spring

BIO	169	Anatomy & Physiology II	3	3	0	4
NUR	112	Health-Illness Concepts (8 weeks)	3	0	6	5
NUR	211	Health Care Concepts (8 weeks)	3	0	6	5
NUR	214*	Nursing Transition Concepts	3	0	3	4

*LPN to ADN students: All LPN to ADN students must complete NUR-214. For LPN to ADN students only (LPN's completing the traditional, non-concept based Practical Nursing diploma will be required to complete NUR 211 in addition to NUR 214.)

First Year-Summer

ENG	111	Writing and Inquiry	3	0	0	3
NUR	114	Holistic Health Concepts	3	0	6	5
PSY	241	Developmental Psychology	3	0	0	3

Second Year-Fall

BIO	175	Microbiology	2	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	0	3
NUR	113	Family Health Concepts (8 weeks)	3	0	6	5
NUR	212	Health System Concepts (8 weeks)	3	0	6	5

Second Year-Spring

NUR 213	Complex Health Concepts	4	3	15	10
Humanities Elec.-See list on preceding page		3	0	0	3

Total Credits: 70

Office Administration: General Office Administration

A25370A (Associate Degree) D25370A (Diploma) C25370A (Certificate)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	3	0	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences					
II. Major Courses					
CIS	110	Introduction to Computers	2	2	3
OST	136	Word Processing	2	2	3
OST	164	Office Editing	3	0	3
OST	184	Records Management	2	2	3
OST	289	Office Admin. Capstone	2	2	3
III. Concentration					
OST	122	Office Computations	2	2	3
OST	236	Adv Word Processing	2	2	3
OST	286	Professional Development	3	0	3
IV. Other Major Courses					
Take 28 credits from this list:					
ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
BUS	260	Business Communication	3	0	3
CTS	130	Spreadsheet	2	2	3
CTS	135	Integrated Software Intro	2	4	4
DBA	110	Database Concepts	2	3	3
MED	121	Medical Terminology I	3	0	3
MED	122	Medical Terminology II	3	0	3
MKT	223	Customer Service	3	0	3
OST	131	Keyboarding	1	2	2
OST	134	Text Entry and Formatting	2	2	3
OST	135	Advanced Text Entry and Formatting	2	2	3

OST	153	Office Finance Solutions	2	2	3
WBL	111	Work-Based Learning I	0	10	1
WBL	121	Work-Based Learning II	0	10	1
WBL	131	Work-Based Learning III	0	10	1
WEB	214	Social Media	2	2	3

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 68

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
CIS	110	Introduction to Computers	2	2	3
OST	122	Office Computations	2	2	3
OST	131	Keyboarding	1	2	2
OST	164	Office Editing	3	0	3

First Year-Spring

CTS	130	Spreadsheet	3	2	3
OST	134	Text Entry and Formatting	2	2	3
OST	136	Word Processing	2	2	3
OST	184	Records Management	2	2	3

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
Humanities Elective-See list on page 79			3	0	3
Social Sciences Elective-See list under required courses			3	0	3

Second Year-Fall

ACC	120	Principles of Financial Accounting	3	2	4
BUS	260	Business Communications	3	0	3
MKT	223	Customer Service	3	0	3
OST	236	Advanced Word Processing	3	0	3

Second Year-Spring

CTS	135	Integrated Software Intro	2	4	4
DBA	110	Database Concepts	2	3	3
MAT	143	Quantitative Literacy	3	0	3
OST	135	Advanced Text Entry and Formatting	2	2	3

Second Year-Summer

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
OST	286	Professional Development	3	0	3
OST	289	Office Administration Capstone	2	2	3

General Office Administrative Diploma Program (D25370A)

Title	Class/Lab/Credit
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I. General Education Courses

ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
or					
COM	120	Interpersonal Communication	3	0	3

II. Major Courses

1. Required Courses

OST	164	Text Editing Applications	3	0	3
CIS	110	Introduction to Computers	2	2	3
OST	136	Word Processing	2	2	3
OST	184	Records Management	2	2	3
OST	289	Office Administration Capstone	2	2	3

III. Concentration Requirements

OST	122	Office Computations	2	2	3
OST	236	Advanced Word Processing	2	2	3
OST	286	Professional Development	3	0	3

IV. Other Major Courses

(A total of 6 Semester Hours must be selected from identified prefixes)

BUS	110	Introduction to Business	3	0	3
CTS	130	Spreadsheet	2	2	3
DBA	110	Database Concepts	2	3	3
MKT	223	Customer Service	3	0	3
OST	134	Text Entry and Formatting	2	2	3
WEB	214	Social Media	2	2	3

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 37

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
MKT	223	Customer Service	3	0	3
OST	122	Office Computations	2	2	3
OST	136	Word Processing	2	2	3
OST	164	Office Editing	3	0	3

First Year-Spring

CIS	110	Introduction to Computers	2	2	3
MAT	143	Quantitative Literacy	2	2	3
or					
COM	120	Interpersonal Communication	3	0	3
CTS	130	Spreadsheet	3	2	3
OST	184	Records Management	2	2	3
OST	236	Advanced Word Processing	2	2	3

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
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OST	286	Professional Development	3	0	3
OST	289	Office Administration Capstone	2	2	3

General Office Administrative Certificate (C25370A)

Title	Class/Lab/Credit				
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I. Major Courses

CIS	110	Introduction to Computers	2	2	3
OST	136	Word Processing	2	2	3
OST	164	Office Editing	3	0	3
OST	184	Records Management	2	2	3
OST	289	Office Systems Management	2	2	3

II. Other Required Course

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 16

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
OST	136	Word Processing	2	2	3
OST	164	Office Editing	3	0	3

First Year-Spring

CIS	110	Introduction to Computers	2	2	3
OST	184	Records Management	2	2	3
OST	289	Office Administration Capstone	2	2	3

Office Administration: Office Finance

A25370B (Office Finance Associate Degree)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	3	0	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.					
II. Major Courses					
CIS	110	Introduction to Computers	2	2	3
OST	136	Word Processing	2	2	3
OST	164	Office Editing	3	0	3
OST	184	Records Management	2	2	3
OST	289	Office Administration Capstone	2	2	3
III. Concentration					
ACC	120	Principles of Financial Accounting	3	2	4
OST	122	Office Computations	2	2	3
OST	153	Office Finance Solutions	2	2	3
IV. Other Major Courses					
Take 28 credits from this list:					
BUS	110	Introduction to Business	3	0	3
BUS	260	Business Communications	3	0	3
CTS	130	Spreadsheet	2	2	3
CTS	135	Integrated Software Intro	2	4	4
DBA	110	Database Concepts	2	3	3
MED	121	Medical Terminology I	3	0	3
MED	122	Medical Terminology II	3	0	3
MKT	223	Customer Service	3	0	3
OST	131	Keyboarding	1	2	2
OST	134	Text Entry and Formatting	2	2	3
OST	135	Advanced Text Entry and Formatting	2	2	3
OST	236	Advanced Word Processing	2	2	3
OST	286	Professional Development	3	0	3
WBL	111	Work-Based Learning I	0	10	1
WBL	121	Work-Based Learning II	0	10	1

WBL	131	Work-Based Learning III	0	10	1
WEB	214	Social Media	2	3	3

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 69

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
BUS	110	Introduction to Business	3	0	3
CIS	110	Introduction to Computers	2	2	3
OST	122	Office Computations	2	2	3
OST	164	Office Editing	3	0	3

First Year-Spring

CTS	130	Spreadsheet	3	2	3
OST	134	Text Entry and Formatting	2	2	3
OST	136	Word Processing	2	2	3
OST	184	Records Management	2	2	3

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
Humanities Elective-See list on page 75			3	0	3
Social Sciences Elective-See list under required courses			3	0	3

Second Year-Fall

ACC	120	Principles of Financial Accounting	3	2	4
BUS	260	Business Communications	3	0	3
MKT	223	Customer Service	3	0	3
OST	236	Advanced Word Processing	3	0	3

Second Year-Spring

CTS	135	Integrated Software Intro	2	4	4
DBA	110	Database Concepts	2	3	3
MAT	143	Quantitative Literacy	3	0	3
OST	153	Office Finance Solutions	2	2	3

Second Year-Summer

COM	120	Interpersonal Communications	3	0	3
or					
COM	231	Public Speaking	3	0	3
OST	286	Professional Development	3	0	3
OST	289	Office Administration Capstone	2	2	3

Office Administration: Office Software

A25370C (Office Software Associate Degree)

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.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Associate Degree Program

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	3	0	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Major Courses					
CIS	110	Introduction to Computers	2	2	3
OST	136	Word Processing	2	2	3
OST	164	Office Editing	3	0	3
OST	184	Records Management	2	2	3
OST	289	Office Administration Capstone	2	2	3

III. Concentration					
CTS	130	Spreadsheet	2	2	3
DBA	110	Database Concepts	2	3	3
OST	236	Advanced Word Processing	2	2	3

IV. Other Major Courses					
Take 28 credits from this list:					
ACC	120	Principles of Financial Accounting	3	2	4
BUS	110	Introduction to Business	3	0	3
BUS	260	Business Communications	3	0	3
CTS	135	Integrated Software Intro	2	4	4
MED	121	Medical Terminology I	3	0	3
MED	122	Medical Terminology II	3	0	3
MKT	223	Customer Service	3	0	3
OST	122	Office Computations	2	2	3
OST	131	Keyboarding	1	2	2
OST	134	Text Entry and Formatting	2	2	3
OST	135	Advanced Text Entry and Formatting	2	2	3
OST	153	Office Finance Solutions	2	2	3
OST	286	Professional Development	3	0	3
WBL	111	Work-Based Learning I	0	10	1
WBL	121	Work-Based Learning II	0	10	1

WBL	131	Work-Based Learning III	0	10	1
WEB	214	Social Media	2	2	3

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 68

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
CIS	110	Introduction to Computers	2	2	3
OST	122	Office Computations	2	2	3
OST	131	Keyboarding	1	2	2
OST	164	Office Editing	3	0	3

First Year-Spring

CTS	130	Spreadsheet	3	2	3
OST	134	Text Entry and Formatting	2	2	3
OST	136	Word Processing	2	2	3
OST	184	Records Management	2	2	3

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
Humanities Elective-See list on page 79			3	0	3
Social Sciences Elective-See list under required courses			3	0	3

Second Year-Fall

ACC	120	Principles of Financial Accounting	3	2	4
BUS	260	Business Communications	3	0	3
MKT	223	Customer Service	3	0	3
OST	236	Advanced Word Processing	3	0	3

Second Year-Spring

CTS	135	Integrated Software Intro	2	4	4
DBA	110	Database Concepts	2	3	3
MAT	143	Quantitative Literacy	3	0	3
OST	135	Advanced Text Entry and Formatting	2	2	3

Second Year-Summer

COM	231	Public Speaking	3	0	3
OST	286	Professional Development	3	0	3
OST	289	Office Administration Capstone	2	2	3

Photographic Technology

A30280 (Associate Degree) C30280 (Certificate)

This curriculum offers training in photographic techniques and their application in professional photographic disciplines. Where offered, students will receive comprehensive course work in four areas of concentration: Photojournalism, Commercial Photography and Portrait Studio Management.

Special emphasis is placed on developing skills in the following areas: fundamentals of camera systems, lighting, photographic process, digital imaging, design and business practices.

Graduates should qualify for entry level jobs in the diverse photographic industry. Employment opportunities exist in the following areas: commercial photography, photojournalism, biomedical photography, portrait, photographic equipment sales, photographic laboratories, and imagining technologies; dependant upon courses offered and completed.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

**This curriculum was designed to be entered in the fall of each year. Some classes may not be offered every semester.*

Title			Class/Lab/Credit		
I. General Education Courses					
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	143	Quantitative Literacy	2	2	3
Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.					

II. Major Courses

PHO	110	Fundamentals of Photography	3	6	5
PHO	115	Basic Studio Lighting	2	6	4
PHO	139	Intro. to Digital Imaging	1	4	3
PHO	224	Multimedia Production	2	3	3

III. Concentration

PHO	113	History of Photography	3	0	3
PHO	217	Photojournalism I	1	6	4
PHO	226	Portraiture	3	3	4
PHO	235	Commercial Photography	2	4	4

IV. Other Major Courses (Must be selected from identified prefixes)

Group I- Take 22 Hours:

PHO	120	Intermediate Photography	2	4	4
PHO	132	Small Format Photography	2	6	4
PHO	140	Digital Photo Imaging I	2	4	4
PHO	150	Portfolio Development I	3	3	4
PHO	180	Creative Problem Solving	1	4	3
PHO	220	Business of Photography	3	0	3
PHO	222	Video Production	2	2	3

Group II- Take 3 Hours:

BUS	110	Introduction To Business	3	0	3
BUS	125	Personal Finance	3	0	3
BUS	230	Small Business Management	3	0	3
CIS	110	Introduction to Computers	2	2	3
GRD	151	Computer Design Basics	1	4	3

WBL	111	Work-Based Learning	0	10	1
WEB	115	Web Markup & Scripting	2	3	3
WEB	210	Web Design	2	2	3
WEB	214	Social Media	2	3	3

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 71

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
PHO	110	Fundamentals of Photography	3	6	5
PHO	113	History of Photography	3	0	3
PHO	139	Introduction to Digital Imaging	1	4	3

First Year-Spring

PHO	115	Basic Studio Lighting	2	6	4
PHO	120	Intermediate Photography	2	4	4
PHO	132	Small Format Photography	2	6	4
PHO	220	Business of Photography	3	0	3

First Year-Summer

BUS	110	Introduction To Business	3	0	3
ENG	111	Writing and Inquiry	3	0	3
Humanities Elective-See list on page 79			3	0	3

Second Year-Fall

PHO	140	Digital Photo Imaging I	2	4	4
PHO	222	Video Production	2	2	3
PHO	224	Multimedia Production	2	3	3
PHO	226	Portraiture	3	3	4

Second Year-Spring

PHO	150	Portfolio Development I	3	3	4
PHO	217	Photojournalism	1	6	4
PHO	235	Commercial Photography	2	4	4

Second Year-Summer

MAT	143	Quantitative Literacy	2	2	3
**Recommended for transfer to four-year colleges					
Social Science Elective-See list on page 79			3	0	3

Photographic Technology Certificate Program (C30280)

Title	Class/Lab/Credit
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I. Major Courses

PHO	110	Fundamentals of Photography	3	6	5
PHO	115	Basic Studio Lighting	2	6	4
PHO	139	Introduction to Digital Imaging	1	4	3

II. Other Major Courses

PHO	120	Intermediate Photography	2	4	4
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III. Other Requirements

ACA	115	Success and Study Skills	0	2	1
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Total Credits: 17

Recommended Semester Schedule**First Year-Fall**

PHO	110	Fundamentals of Photography	3	6	5
PHO	139	Intro. to Digital Imaging	1	4	3
ACA	115	Success and Study Skills	0	2	1

First Year-Spring

PHO	115	Basic Studio Lighting	2	6	4
PHO	120	Intermediate Photography	2	4	4

Practical Nursing Education

D45660 (Diploma)

The Practical Nursing curriculum provides knowledge and skills to integrate safety and quality into nursing care to meet the needs of the holistic individual 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 safe, individualized nursing care and participation in the interdisciplinary team while employing evidence-based practice, quality improvement, and informatics.

Graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN) which is required for practice as a Licensed Practical Nurse. Employment opportunities include hospitals, rehabilitation/long term care/home health facilities, clinics, and physicians' offices.

Practical Nursing Curriculum Educational Outcomes

Upon completion of the Practical Nursing program, the graduate will:

- 1) Participate in evaluating the concepts of the holistic individual and client response in the promotion of health, wellness, illness, quality of life, and the achievement of potential.
- 2) Practice professional nursing behaviors, within the ethical-legal practice boundaries of the LPN, incorporating personal responsibility and accountability for continued competence.
- 3) Participate in providing evidence-based nursing care, from an established plan of care, based on biophysical, psychosocial and cultural needs of clients in various stages of growth and development while assisting them to attain their highest level of wellness.
- 4) Reinforce and/or implement the teaching plan developed and delegated by the registered nurse to promote the health of individuals, incorporating teaching and learning principles.
- 5) Participate in the nursing process to provide individualized, safe and effective nursing care in a structured setting under supervision.
- 6) Demonstrate caring behaviors in implementing culturally-competent, client-centered nursing care to diverse clients across the life span.
- 7) Participate in Quality Improvement (QI) by identifying hazards and errors and by suggesting, to the RN, changes to improve the client care process.
- 8) Utilize informatics to access, manage, and communicate client information.
- 9) Participate in collaboration with the interdisciplinary healthcare team, as assigned by the registered nurse, to support positive individual and organizational outcomes in a safe and cost effective manner.

*The McDowell Technical Practical Nursing (PN) Program is approved by the NC Community College System Office and the NC Board of Nursing.

Characteristics of the PN Nursing Program: A) will prepare students to apply to sit for the National Council Licensure Examination-PN, which is required to practice as a Licensed Practical Nurse.

Please schedule an appointment with the Pre-Nursing Health Sciences Advisor for complete admission information and to obtain an admission packet.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title			Class/	Lab/	Clinical/	Credit
I. General Education Courses						
ENG	111	Writing and Inquiry	3	0	0	3
PSY	150	General Psychology	3	0	0	3
II. Major Courses						
NUR	101	Practical Nursing I	7	6	6	11
NUR	102	Practical Nursing II	7	0	9	10
NUR	103	Practical Nursing III	6	0	9	9
III. Other Major Courses						
BIO	168	Anatomy & Physiology I	3	3	0	4
BIO	169	Anatomy & Physiology II	3	3	0	4
IV. Other Required Courses						
ACA	115	Success and Study Skills	0	2	0	1
Total Credits: 45						

Recommended Semester Schedule

Fall Semester			Class	Lab	Clinical	Credit
ACA	115	Success and Study Skills	0	2	0	1
BIO	168	Anatomy & Physiology I	3	3	0	4
NUR	101	Practical Nursing I	7	6	6	11
PSY	150	General Psychology	3	0	0	3
Spring Semester						
BIO	169	Anatomy & Physiology II	3	3	0	4
ENG	111	Writing and Inquiry	3	0	0	3
NUR	102	Practical Nursing II	7	0	9	10
Summer Semester						
NUR	103	Practical Nursing III	6	0	9	9

Welding Technology

A50420 (Associate Degree) D50420 (Diploma) C50420A (Certificate) C50420B (Certificate)

This 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 in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides 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.

In addition to the courses listed below, students may be required to take developmental classes based on their placement test scores. These classes do not count toward hours required for graduation.

Associate Degree Program

Title					Class/Lab/Clinical/WorkCredit
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I. General Education Courses

COM	120	Interpersonal Communications	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra and Trigonometry I	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

II. Major Courses

WLD	110	Cutting Processes	1	3	2
WLD	112	Basic Welding	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	116	SMAW (Stick) Plate/Pipe	1	9	4
WLD	121	GMAW (MIG) FCAW/Plate	2	6	4
WLD	131	GTAW (TIG) Plate	2	6	4
WLD	141	Symbols & Specifications	2	2	3
WLD	143	Welding Metallurgy	1	2	2
WLD	151	Fabrication I	2	6	4

III. Other Major Courses (Must be selected from identified prefixes)

Take 8 credits

ISC	112	Industrial Safety	2	0	2
MAC	151	Machining Calculations	1	2	2
MEC	142	Physical Metallurgy	1	2	2
WLD	261	Certification Practices	1	3	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	113	Work-Based Learning I	0	30	3
WBL	114	Work-Based Learning I	0	40	4
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	123	Work-Based Learning II	0	30	3
WBL	124	Work-Based Learning II	0	40	4
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	133	Work-Based Learning III	0	30	3
WBL	134	Work-Based Learning III	0	40	4
WBL	211	Work-Based Learning IV	0	10	1

WBL	212	Work-Based Learning IV	0	20	2
WBL	213	Work-Based Learning IV	0	30	3
WBL	214	Work-Based Learning IV	0	40	4

Take 11 credits

BPR	111	Print Reading	1	2	2
CIS	110	Introduction to Computers	2	2	3
MAC	121	Intro to CNC	2	0	2
MAC	122	CNC Turning	1	3	2
MAC	124	CNC Milling	1	3	2

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 66

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
WLD	112	Basic Welding	1	3	2
WLD	141	Symbols & Specifications	2	2	3
BPR	111	Print Reading	1	2	2
MAC	121	Intro to CNC	2	0	2
ISC	112	Industrial Safety	2	0	2
MAC	151	Machining Calculations	1	2	2

First Year-Spring

WLD	110	Cutting Processes	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	131	GTAW (TIG) Plate	2	6	4
MAC	122	CNC Turning	1	3	2

First Year-Summer

ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra and Trigonometry I	2	2	3
Humanities		Student Choice	3	0	3
Social Science		Student Choice	3	0	3

Second Year-Fall

CIS	110	Introduction to Computers	2	2	3
MEC	142	Physical Metallurgy	1	2	2
WLD	116	SMAW (Stick) Plate/Pipe	1	9	4
WLD	121	GMAW (MIG) FCAW/Plate	2	6	4

Second Year-Spring

ACA	220	Professional Transition	1	0	1
COM	120	Interpersonal Communications	3	0	3
MAC	124	CNC Milling	1	3	2
WLD	143	Welding Metallurgy	1	2	2
WLD	151	Fabrication I	2	6	4
WLD	261	Certification Practices	1	3	2

Welding Technology Diploma Program (D50420)

Title			Class/Lab/Credit		
I. General Education Courses					
ENG	101	Applied Communications I	3	0	3
MAT	110	Mathematical Measurement and Literacy	2	2	3

II. Major Courses

WLD	110	Cutting Processes	1	3	2
WLD	112	Basic Welding	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	116	SMAW (Stick) Plate/Pipe	1	9	4
WLD	121	GMAW (MIG) FCAW/Plate	2	6	4
WLD	131	GTAW (TIG) Plate	2	6	4
WLD	141	Symbols & Specifications	2	2	3
WLD	143	Welding Metallurgy	1	2	2
WLD	151	Fabrication I	2	6	4

III. Other Major Courses (Must be selected from identified prefixes)

Take 7 credits

CIS	110	Introduction to Computers	2	2	3
ISC	112	Industrial Safety	2	0	2
WLD	261	Certification Practices	1	3	2
WBL	111	Work-Based Learning I	0	10	1
WBL	112	Work-Based Learning I	0	20	2
WBL	121	Work-Based Learning II	0	10	1
WBL	122	Work-Based Learning II	0	20	2
WBL	131	Work-Based Learning III	0	10	1
WBL	132	Work-Based Learning III	0	20	2
WBL	211	Work-Based Learning IV	0	10	1
WBL	212	Work-Based Learning IV	0	20	2

IV. Other Required Courses

ACA	115	Success and Study Skills	0	2	1
ACA	220	Professional Transition	1	0	1

Total Credits: 45

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
WLD	112	Basic Welding	1	3	2
WLD	141	Symbols & Specifications	2	2	3
ISC	112	Industrial Safety	2	0	2

First Year-Spring

WLD	110	Cutting Processes	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	131	GTAW (TIG) Plate	2	6	4

First Year-Summer

CIS	110	Introduction to Computers	2	2	3
MAT	110	Mathematical Measurement and Literacy	2	2	3

Second Year-Fall

WLD	116	SMAW (Stick) Plate/Pipe	1	9	4
WLD	121	GMAW (MIG) FCAW/Plate	2	6	4

Second Year-Spring

ACA	220	Professional Transition	1	0	1
ENG	101	Applied Communications I	3	0	3
WLD	143	Welding Metallurgy	1	2	2
WLD	151	Fabrication I	2	6	4
WLD	261	Certification Practices	1	3	2

Welding Technology Certificate Program (C50420A) Level I

Title	Class/Lab/Credit
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I. Major Courses

WLD	110	Cutting Processes	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	131	GTAW (TIG) Plate	2	6	4
WLD	143	Welding Metallurgy	1	2	2

Total Credits: 13

*High School Articulation: Welding Technology I= WLD 110, Welding Technology I and II = WLD 110 and WLD 115

Recommended Semester Schedule**First Year-Spring**

WLD	110	Cutting Processes	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	131	GTAW (TIG) Plate	2	6	4
WLD	143	Welding Metallurgy	1	2	2

Welding Technology Certificate Program (C50420B) Level II

Title	Class/Lab/Credit
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I. Major Courses

WLD	110	Cutting Processes*	1	3	2
or					
WLD	112	Basic Welding Process	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	121	GMAW (MIG) FCAW/Plate	2	6	4
WLD	131	GTAW (TIG) Plate	2	6	4
WLD	143	Welding Metallurgy	1	2	2

Total Credits: 17

Recommended Semester Schedule

First Year-Fall

*Option: Student Takes WLD 112

WLD	112	Basic Welding*	1	3	2
WLD	121	GMAW (MIG) FCAW/Plate	2	6	4

First Year-Summer

*Option: Student Takes WLD 110

WLD	110	Cutting Processes	1	3	2
WLD	115	SMAW (Stick) Plate	2	9	5
WLD	131	GTAW (TIG) Plate	2	6	4
WLD	143	Welding Metallurgy	1	2	2

MTCC Classes Offered By Semester

Prefix	Course #	Title	Semester Offered			Notes
ACA	115	Success & Study Skills	FA	SP	SU	
ACA	122	College Transfer Success	FA	SP	SU	
ACA	220	Professional Transition		SP	SU	
ACC	120	Principles of Financial Accounting	FA	SP		
ACC	121	Principles of Managerial Accounting	FA	SP		
ACC	129	Individual Income Taxes	FA			
ACC	130	Business Income Taxes		SP		
ACC	140	Payroll Accounting		SP		
ACC	150	Accounting Software Applications		SP		
ACC	180	Practices in Bookkeeping		SP		
ACC	220	Intermediate Accounting I	FA			
ACC	221	Intermediate Accounting II		SP		
ACC	227	Practices in Accounting			SU	
ACC	240	Government & Not-for-Profit Accounting				Offered as needed
ACC	250	Advanced Accounting				Offered as needed
ACC	269	Audit & Assurance Services				Offered as needed
AHR	110	Intro to Refrigeration	FA			
AHR	111	HVACR Electricity	FA			
AHR	112	Heating Technology		SP		
AHR	113	Comfort Cooling		SP		
AHR	114	Heat Pump Technology			SU	
AHR	115	Refrigeration Systems			SU	
AHR	130	HVAC Controls		SP		
AHR	160	Refrigerant Certification	FA	SP	SU	
AHR	180	HVACR Customer Relations	FA	SP	SU	
AHR	211	Residential Building Design			SU	
AHR	212	Advanced Comfort Systems	FA			
AHR	213	HVACR Building Code	FA			
ART	111	Art Appreciation	FA	SP	SU	
ART	114	Art History Survey I				
ART	115	Art History Survey II				
ART	121	Two-Dimensional Design	FA			
ART	171	Digital Design I		SP		
ART	275	Introduction to Graphic Design	FA			
ASL	111	Elementary ASL I				Offered as needed
ASL	112	Elementary ASL II				Offered as needed
ASL	181	ASL Lab I				Offered as needed
ASL	182	ASL Lab II				Offered as needed
AST	151	General Astronomy I				Offered as needed
AST	151A	General Astronomy I Lab				Offered as needed
AST	152	General Astronomy II				Offered as needed
AST	152A	General Astronomy II Lab				Offered as needed
ATR	112	Introduction to Automation	FA			

Prefix	Course #	Title	Semester	Offered	Notes
ATR	212	Industrial Robots	FA		
ATT	115	Green Transportation Safety & Service			Offered as needed
ATT	125	Hybrid-Electric Transportation			Offered as needed
ATT	140	Emerging Transportation Technology			Offered as needed
AUT	113	Automotive Servicing I		SP	Even-numbered years
AUT	116	Engine Repair	FA		Odd-numbered years
AUT	116A	Engine Repair Lab	FA		Odd-numbered years
AUT	141	Suspension & Steering Systems			SU Odd-numbered years
AUT	141A	Suspension & Steering Lab			SU Odd-numbered years
AUT	151	Brake Systems			SU Odd-numbered years
AUT	151A	Brake Systems Lab			SU Odd-numbered years
AUT	161	Basic Auto Electricity			Offered as needed
AUT	181	Engine Performance I		SP	Even-numbered years
AUT	181A	Engine Performance I Lab		SP	Even-numbered years
AUT	183	Engine Performance II			SU Even-numbered years
AUT	221	Auto Transmissions/Transaxles	FA		Even-numbered years
AUT	221A	Auto Transmissions/Transaxles Lab	FA		Even-numbered years
AUT	231	Manual Trans/Ax/Drtrains	FA		Even-numbered years
AUT	231A	Manual Trans/Ax/Drtrains Lab	FA		Even-numbered years
BIO	111	General Biology	FA	SP	
BIO	112	General Biology II		SP	SU
BIO	155	Nutrition			Offered as needed
BIO	163	Basic Anatomy and Physiology	FA		
BIO	168	Anatomy and Physiology I	FA	SP	
BIO	169	Anatomy and Physiology II	FA	SP	SU
BIO	175	General Microbiology			Offered as needed
BIO	275	Microbiology	FA	SP	SU
BPR	111	Print Reading	FA		
BPR	135	Schematics & Diagrams	FA	SP	
BUS	110	Introduction to Business	FA	SP	SU
BUS	115	Business Law I	FA	SP	
BUS	125	Personal Finance	FA	SP	
BUS	135	Principles of Supervision		SP	
BUS	137	Principles of Management	FA	SP	
BUS	147	Business Insurance	FA		SU
BUS	153	Human Resource Management		SP	
BUS	225	Business Finance	FA		
BUS	230	Small Business Management		SP	SU
BUS	240	Business Ethics			Offered as needed
BUS	253	Leadership and Management Skills	FA		
BUS	260	Business Communication	FA		
BUS	280	REAL Small Business			
CAR	111	Carpentry I	FA		
CAR	112	Carpentry II	FA		

Prefix	Course #	Title	Semester	Offered	Notes
CCT	110	Intro to Cyber Crime	FA		
CCT	112	Ethics and High Technology		SP	
CCT	121	Computer Crime Investigation		SP	
CCT	231	Technology Crimes and Law	FA		
CCT	240	Data Recovery Techniques		SP	
CCT	250	Network Vulnerabilities I	FA		
CCT	251	Network Vulnerabilities		SP	
CCT	285	Trends in Cyber Crime		SP	
CCT	289	Capstone Project			SU
CHM	131	Introduction to Chemistry			Offered as needed
CHM	131A	Introduction to Chemistry Lab			Offered as needed
CHM	132	Organic and Biochemistry			Offered as needed
CHM	151	General Chemistry I	FA		
CHM	152	General Chemistry II		SP	
CIS	070	Fundamentals of Computing			Offered as needed
CIS	110	Introduction to Computers	FA	SP	SU
CIS	111	Basic PC Literacy	FA		
CIS	115	Intro to Programming & Logic			Offered as needed
CJC	110	Basic Law Enforcement BLET	FA	SP	
		Call to see when offered: 828-652-0633			
CJC	111	Introduction fo Criminal Justice		SP	
CJC	112	Criminology	FA		
CJC	120	Interviews/Interrogations			Offered as needed
CJC	121	Law Enforcement Operations			Offered as needed
CJC	122	Community Policing			Offered as needed
CJC	131	Criminal Law			Offered as needed
CJC	132	Court Procedure and Evidence		SP	
CJC	141	Corrections			Offered as needed
CJC	144	Crime Scene Processing			Offered as needed
CJC	160	Terrorism: Underlying Issues			Offered as needed
CJC	161	Introduction to Homeland Security			Offered as needed
CJC	212	Ethics and Communication Relations			Offered as needed
CJC	231	Constitutional Law		SP	
CJC	232	Civil Liability			Offerd as needed
CMT	120	Codes and Inspections			
COM	110	Introduction to Communication			Offered as needed
COM	120	Introduction to Interpersonal Comm.	FA	SP	SU
COM	231	Public Speaking	FA	SP	SU
COS	111	Cosmetology Concepts I	FA	SP	
COS	112	Salon I	FA	SP	
COS	113	Cosmetology Concepts II	FA	SP	
COS	114	Salon II	FA	SP	
COS	115	Cosmetology Concepts III			SU
COS	116	Salon III			SU

Prefix	Course #	Title	Semester	Offered	Notes
COS	117	Cosmetology Concepts IV	FA	SP	
COS	118	Salon IV	FA	SP	
COS	119	Esthetics Concepts I	FA	SP	SU
COS	120	Esthetics Salons I	FA	SP	SU
COS	121	Manicure/Nail Technology I	FA	SP	
COS	125	Esthetics Concepts II	FA	SP	SU
COS	126	Esthetics Salon II	FA	SP	SU
COS	222	Manicure/Nail Technology II	FA	SP	
COS	224	Trichology & Chemistry			Offered as needed
COS	240	Contemporary Design			Offered as needed
COS	250	Computerized Salon Ops			SU
COS	253	Esthetics Instructional Concepts I	FA		
COS	254	Esthetics Instructional Concepts II		SP	
COS	271	Instructor Concepts I			Offered as needed
COS	272	Instructor Practicum I			Offered as needed
COS	273	Instructor Concepts II			Offered as needed
COS	274	Instructor Practicum II			Offered as needed
CSC	121	Python Programming			SU
CSC	134	C++ Programming		SP	
CSC	151	JAVA Programming		SP	
CST	131	OSHA/Safety/Certification			SU
CTI	110	Web, PGM, and Database Management	FA		
CTI	120	Network & Security Foundation		SP	
CTI	140	Virtualization Concepts			Offered as needed
CTS	115	Information Systems Business Concepts	FA	SP	
CTS	120	Hardware/Software Support		SP	
CTS	130	Spreadsheet		SP	SU
CTS	135	Integrated Software Introduction		SP	
DBA	110	Database Concepts		SP	SU
DFT	119	Basic CAD		SP	
DFT	170	Engineering Graphics		SP	
DRA	111	Theatre Appreciation		SP	
DRA	126	Storytelling			Offered as needed
ECO	251	Principles of Microeconomics	FA		
ECO	252	Principles of Macroeconomics		SP	SU
EDU	119	Intro to Early Childhood Education	FA	SP	SU
EDU	131	Child, Family, & Community	FA		
EDU	144	Child Development I	FA		
EDU	145	Child Development II		SP	
EDU	146	Child Guidance		SP	
EDU	151	Creative Activities	FA		
EDU	153	Health, Safety, & Nutrition	FA		
EDU	184	Early Childhood Intro Practicum		SP	
EDU	187	Teaching and Learning for All	FA		

Prefix	Course #	Title	Semester	Offered	Notes
EDU	216	Foundations of Education	FA		
EDU	221	Children With Exceptionalities	FA		
EDU	234	Infants, Toddlers, and Twos		SP	
EDU	250	Teacher Licensure Preparation		SP	
EDU	252	Math & Science Activities			SU Odd-numbered years
EDU	261	Early Childhood Admin I	FA		
EDU	262	Early Childhood Admin II	FA		
EDU	271	Educational Technology		SP	Odd-numbered years
EDU	279	Literacy Development and Instruction		SP	
EDU	280	Language/Literacy Experiences		SP	
EDU	284	Early Childhood Capstone Practicum		SP	
EGR	125	Application Software for Tech	FA		
EGR	150	Intro to Engineering		SP	
EGR	220	Engineering Statistics			Offered as needed
ELC	113	Residential Wiring	FA		
ELC	115	Industrial Wiring		SP	
ELC	118	National Electrical Code	FA		
ELC	119	NEC Calculations	FA		
ELC	128	Intro to PLC		SP	
ELC	131	Circuit Analysis	FA		
ELC	131A	Circuit Analysis I Lab	FA		
ELC	213	Instrumentation	FA		
ELN	133	Digital Electronics	FA		
ELN	231	Industrial Controls		SP	
ELN	233	Microprocessor Systems		SP	
EMS	110	EMT	FA		
EMS	122	EMS Clinical Practicum I		SP	
EMS	130	Pharmacology		SP	
EMS	131	Advanced Airway Management		SP	
EMS	160	Cardiology I		SP	
EMS	220	Cardiology II			SU
EMS	221	EMS Clinical Practicum II			SU
EMS	231	EMS Clinical Practicum III	FA		
EMS	235	EMS Management		SP	
EMS	240	Patients with Special Challenges			SU
EMS	241	EMS Clinical Practicum IV		SP	
EMS	250	Medical Emergencies	FA		
EMS	260	Trauma Emergencies	FA		
EMS	270	Lifespan Emergencies			SU
EMS	285	EMS Capstone			SU
ENG	002	Transition English	FA	SP	SU
ENG	011	Writing and Inquiry Support	FA	SP	SU
ENG	101	Applied Communications I	FA		
ENG	111	Writing and Inquiry Support	FA	SP	SU

Prefix	Course #	Title	Semester	Offered	Notes
ENG	112	Writing/Research in the Disciplines	FA	SP	SU
ENG	125	Creative Writing			Offered as needed
ENG	231	American Literature I	FA		SU
ENG	232	American Literature II		SP	
ENG	241	British Literature I	FA		
ENG	242	British Literature II		SP	
ENG	272	Southern Literature			Offered as needed
ENG	273	African-American Literature			SU
EPT	120	Sociology of Disaster	FA		
EPT	124	EM Services Law and Ethics	FA		
EPT	130	Mitigation & Preparedness		SP	
EPT	140	Emergency Management	FA		
EPT	150	Incident Management		SP	
EPT	210	Response and Recovery	FA		
EPT	220	Terrorism and Emergency Management	FA		
EPT	275	Emergency Operations Center Mngmnt.		SP	
FIP	110	Fire Protection/Restaurants & Hotels			Offered as needed
FIP	120	Introduction to Fire Protection	FA		
FIP	124	Fire Protection and Public Education		SP	
FIP	132	Building Construction			Offered as needed
FIP	146	Fire Protection Systems			Offered as needed
FIP	162	Firefighter Safety and Wellness			Offered as needed
FIP	176	HazMat: Operations			Offered as needed
FIP	180	Wildland Fire Behavior			Offered as needed
FIP	184	Wildland Fire Safety			Offered as needed
FIP	220	Fire Fighting Strategies			Offered as needed
FIP	228	Local Government Finance	FA		
FIP	229	Fire Dynamics and Combust.			Offered as needed
FIP	232	Water and Hydraulics Dist.			Offered as needed
FRE	111	Elementary French I			Offered as needed
FRE	112	Elementary French II			Offered as needed
GEL	111	Geology			Offered as needed
GRO	120	Gerontology			Offered as needed
GRD	110	Typography I		SP	
GRD	121	Drawing Fundamentals I	FA		
GRD	131	Illustration I		SP	
GRD	141	Graphic Design I	FA	SP	
GRD	142	Graphic Design II		SP	
GRD	151	Computer Design Basics	FA		
GRD	152	Compter Design Tech I		SP	
GRD	160	Photo Fundamentals I			SU
GRD	241	Graphic Design III	FA		
GRD	242	Graphic Design IV		SP	
GRD	249	Advanced Design Practice		SP	

Prefix	Course #	Title	Semester	Offered	Notes
GRD	263	Illustrative Imaging	FA		
GRD	280	Portfolio Design			SU
GRO	120	Gerontology	FA		
HEA	110	Personal Health/Wellness	FA	SP	
HIT	110	Fundamentals of HIM	FA	SP	SP only for Adv. Placement
HIT	112	Health Law and Ethics			SU
HIT	114	Health Data Sys/Standards	FA	SP	
HIT	122	Professional Practice Experience I	FA		
HIT	124	Professiona Practice Experience II	FA		SU
HIT	211	ICD Coding		SP	
HIT	213	Inpt Proc Coding & Reporting	FA		
HIT	214	CPT/Other Coding Systems		SP	
HIT	215	Revenue Cycle Management	FA	SP	SU SU only for Adv. Placement
HIT	217	Quality & Data Analysis		SP	
HIT	218	Management Principles in HIT	FA		
HIT	220	Electronic Health Records	FA		
HIT	221	Lifecycle of EHR		SP	
HIT	222	Professional Practice Experience III	FA	SP	FA only for Adv. Placement
HIT	225	Healthcare Informatics	FA		
HIT	226	Principles of Disease	FA		
HIT	227	Informatics Project Management		SP	
HIT	280	Professional Issues		SP	
HMT	110	Intro to Healthcare Management	FA		
HMT	210	Medical Insurance	FA		
HMT	211	Longterm Care Admin.		SP	
HMT	212	Management of Healthcare Organizations	FA		
HMT	220	Healthcare Financial Management		SP	
HMT	225	Practice Mgmt. Simulation		SP	SU
HIS	111	World Civilizations I	FA		SU
HIS	112	World Civilizations II		SP	SU
HIS	131	American History I	FA		SU
HIS	132	American History II		SP	SU
HUM	110	Technology and Society			Offered as needed
HUM	115	Critical Thinking			Offered as needed
HUM	120	Cultural Studies			SU
HUM	122	Southern Culture	FA	SP	SU
HYD	110	Hydraulics/Pneumatics I	FA		
ISC	112	Industrial Safety	FA		
ISC	121	Environmental Health & Safety			SU
ISC	130	Intro to Quality Control		SP	
ISC	210	Oper & Prod Planning		SP	
LDD	112	Intro Light Duty Diesel			Offered as needed
LDD	181	Ldd Fuel Systems			Offered as needed
MAC	114	Introduction to Metrology		SP	

Prefix	Course #	Title	Semester	Offered	Notes
MAC	121	Intro to CNC	FA		
MAC	122	CNC Turning		SP	
MAC	124	CNC Milling		SP	
MAC	141	Machining Applications I	FA		
MAC	142	Machining Applications II		SP	
MAC	143	Machining Applications III	FA		
MAC	151	Machining Calculations	FA		
MAC	152	Advanced Machining Calculations		SP	
MAC	222	Advanced CNC Turning	FA		
MAC	224	Advanced CNC Milling		SP	
MAC	231	CAM: CNC Turning	FA		
MAC	232	CAM: CNC Milling		SP	
MAC	247	Production Tooling	FA		
MNT	110	Introduction to Maintenance Procedures		SP	
MNT	160	Industrial Fabrication			Offered as needed
MAT	003	Transition Math	FA	SP	SU
MAT	010	Math Measurement and Literacy Support		SP	SU
MAT	021	Algebra/Trigonometry I Support			SU
MAT	043	Quantitative Literacy Support	FA	SP	SU
MAT	052	Statistical Methods I Support	FA	SP	SU
MAT	071	PreCalculus Algebra Support	FA	SP	
MAT	110	Math Measurement & Literacy		SP	SU
MAT	121	Algebra and Trigonometry I			SU
MAT	122	Algebra/Trigonometry II			Offered as needed
MAT	143	Quantitative Literacy	FA	SP	SU
MAT	152	Statistical Methods I	FA	SP	SU
MAT	171	PreCalculus Algebra	FA	SP	SU
MAT	172	PreCalculus Trigonometry		SP	SU
MAT	271	Calculus I	FA		SU
MAT	272	Calculus II	FA	SP	
MAT	273	Calculus III	FA		SU
MAT	280	Linear Algebra			Offered as needed
MAT	285	Differential Equations		SP	
MEC	130	Mechanisms	FA		
MEC	142	Physical Metallurgy	FA		
MEC	161	Manufacturing Processes I		SP	
MED	121	Medical Terminology I	FA	SP	SU Offered as needed
MED	122	Medical Terminology II	FA	SP	SU Offered as needed
MKT	120	Principles of Marketing		SP	
MKT	121	Retailing	FA		
MKT	122	Visual Merchandising			Offered as needed
MKT	123	Fundamentals of Selling	FA		
MKT	220	Advertising and Sales Promotion			SU
MKT	223	Customer Service	FA		

Prefix	Course #	Title	Semester	Offered	Notes
MKT	224	International Marketing		SP	
MKT	225	Marketing Research		SP	
MKT	227	Marketing Applications		SP	
MKT	230	Public Relations			Offered as needed
MKT	232	Social Media Marketing	FA		
MNT	110	Intro to Maintenance Procedures		SP	
MUS	110	Music Appreciation		SP	SU
MUS	112	Introduction to Jazz			Offered as needed
MUS	210	History of Rock Music			Offered as needed
NAS	101	Nurse Aide I	FA	SP	SU
NAS	102	Nurse Aide II	FA	SP	
NET	125	Networking Basics	FA		
NOS	110	Operating Systems Concepts			Offered as needed
NOS	120	Linux/UNIX Single User	FA		
NOS	130	Windows Single User		SP	
NOS	230	Windows Admin I	FA		
NUR	101	Practical Nursing I	FA		
NUR	102	Practical Nursing II		SP	
NUR	103	Practical Nursing III			SU
NUR	111	Intro to Health Concepts	FA		
NUR	112	Health Illness Concepts		SP	
NUR	113	Family Health Concepts	FA		
NUR	114	Holistic Health Concepts			SU
NUR	211	Health Care Concepts		SP	
NUR	212	Health System Concepts	FA		
NUR	213	Complex Health Concepts		SP	
NUR	214	Nursing Transition Concepts		SP	
OMT	112	Material Management		SP	
OMT	260	Issues in Operation Management			SU
OST	122	Office Computations	FA		
OST	131	Keyboarding	FA	SP	
OST	134	Text Entry & Formatting	FA	SP	
OST	135	Advanced Text Entry & Format	FA	SP	
OST	136	Word Processing	FA	SP	SU
OST	149	Medical Legal Issues		SP	
OST	153	Office Finance Solutions/Quickbooks		SP	
OST	164	Office Editing	FA		
OST	184	Records Management		SP	
OST	223	Admin Office Transcription I		SP	
OST	236	Advanced Word/Information Processing	FA		
OST	247	Procedure Coding		SP	
OST	248	Diagnostic Coding		SP	
OST	249	Medical Coding Certification			SU
OST	250	Long Term Care Coding	FA		

Prefix	Course #	Title	Semester	Offered	Notes
OST	286	Professional Development		SP	SU
OST	289	Office Systems Management		SP	SU
PCI	264	Process Control with PLCs	FA		
PED	110	Fit and Well for Life	FA	SP	SU
PED	111	Physical Fitness			Offered as needed
PED	113	Aerobics I			Offered as needed
PED	117	Weight Training I	FA		
PED	120	Walking for Fitness	FA	SP	
PED	128	Golf - Beginning			Offered as needed
PED	130	Tennis - Beginning			Offered as needed
PED	139	Bowling - Beginning			Offered as needed
PED	152	Swimming - Beginning			Offered as needed
PED	155	Water Aerobics			Offered as needed
PED	174	Wilderness Pursuits			Offered as needed
PED	219	Disc Golf			SU
PHI	210	History of Philosophy			Offered as needed
PHI	215	Philosophical Issues			Offered as needed
PHI	240	Introduction to Ethics			Offered as needed
PHO	110	Fundamentals of Photography	FA	SP	
PHO	113	History of Photography	FA		
PHO	115	Basic Studio Lighting		SP	
PHO	120	Intermediate Photography	FA	SP	
PHO	132	Small-Format Photography		SP	
PHO	139	Intro to Digital Imaging	FA	SP	
PHO	140	Digital Photo Imaging I	FA	SP	
PHO	150	Portfolio Development I		SP	
PHO	180	Creative Problem Solving			Offered as needed
PHO	216	Documentary Photography			Offered as needed
PHO	217	Photojournalism I		SP	
PHO	220	Business of Photography		SP	
PHO	222	Video Production	FA		
PHO	224	Multimedia Production	FA		
PHO	226	Portraiture	FA		
PHO	235	Commercial Photography		SP	
PHY	110	Conceptual Physics			Offered as needed
PHY	110A	Conceptual Physics Lab			Offered as needed
PHY	131	Physics - Mechanics		SP	
PHY	151	College Physics I			Offered as needed
PHY	152	College Physics II			Offered as needed
PHY	251	General Physics I	FA		
PHY	252	General Physics II		SP	
PLA	110	Introduction to Plastics		SP	
PLU	115	Basic Plumbing		SP	
POL	120	American Government	FA	SP	

Prefix	Course #	Title	Semester	Offered	Notes
POL	130	State & Local Government	FA		
POL	210	Comparative Government			Offered as needed
PSY	118	Interpersonal Psychology			Offered as needed
PSY	150	General Psychology	FA	SP	SU
PSY	239	Psychology of Personality		SP	
PSY	241	Developmental Psych	FA	SP	SU
PSY	244	Child Development I			Offered as needed
PSY	245	Child Development II			Offered as needed
PSY	281	Abnormal Psychology	FA		SU
REF	117	Refrigeration Controls			SU
REL	110	World Religions			Offered as needed
REL	211	Intro to Old Testament	FA		Offered as needed
REL	212	Intro to New Testament		SP	Offered as needed
SEC	160	Security Administration I	FA		
SEC	260	Security Administration II		SP	
SOC	210	Introduction to Sociology	FA	SP	SU
SOC	213	Sociology of the Family	FA	SP	SU
SOC	220	Social Problems			Offered as needed
SOC	225	Social Diversity	FA		
SOC	242	Sociology of Deviance			Offered as needed
SPA	110	Introduction to Spanish			Offered as needed
SPA	111	Elementary Spanish I	FA	SP	
SPA	112	Elementary Spanish II		SP	
SPA	181	Spanish Lab I	FA	SP	
SPA	182	Spanish Lab II		SP	
SPA	211	Intermediate Spanish I	FA		
SPA	212	Intermediate Spanish II		SP	
SPA	281	Spanish Lab 3	FA		
SPA	282	Spanish Lab 4		SP	
TRN	111	Chassis Maintenance/Light Repair		SP	Odd-numbered years
TRN	112	Powertrain Maintenance/Light Repair		SP	Odd-numbered years
TRN	130	Intro to Sustainable Tran		SP	Odd-numbered years
TRN	140	Trans Climate Control			SU Even-numbered years
TRN	140A	Trans Climate Control Lab			SU Even-numbered years
TRN	170	PC Skills for Transportation	FA		Odd-numbered years
TRN	180	Basic Welding for Transportation	FA		Even-numbered years
WEB	111	Intro to Web Graphics	FA		
WEB	115	Web Markup and Scripting	FA		
WEB	120	Intro Internet Multimedia		SP	
WEB	140	Web Development Tools	FA		
WEB	151	Mobile Appicaiton Development		SP	
WEB	182	PHP Programming	FA		
WEB	210	Web Design	FA		
WEB	214	Social Media		SP	

Prefix	Course #	Title	Semester	Offered	Notes
WEB	225	Content Management Systems		SP	
WEB	250	Database Driven Websites		SP	
WEB	285	Emerging Web Technologies	FA		
WEB	287	Web E-Portfolio		SP	
WLD	110	Cutting Processes		SP	
WLD	112	Basic Welding Processes	FA		
WLD	115	SMAW (Stick) Plate		SP	
WLD	116	SMAW (Stick) Plate/Pipe	FA		
WLD	121	GMAW (MIG) FCAW/Plate	FA		
WLD	131	GTAW (TIG) Plate		SP	
WLD	141	Symbols & Specifications	FA		
WLD	143	Welding Metallurgy		SP	
WLD	151	Fabrication I		SP	
WLD	261	Certification Practices		SP	
WBL	111	Work-Based Learning I	FA	SP	SU
WBL	112	Work-Based Learning I	FA	SP	SU
WBL	113	Work-Based Learning I	FA	SP	SU
WBL	114	Work-Based Learning I	FA	SP	SU
WBL	121	Work-Based Learning II	FA	SP	SU
WBL	122	Work-Based Learning II	FA	SP	SU
WBL	123	Work-Based Learning II	FA	SP	SU
WBL	124	Work-Based Learning II	FA	SP	SU
WBL	131	Work-Based Learning III	FA	SP	SU
WBL	132	Work-Based Learning III	FA	SP	SU
WBL	133	Work-Based Learning III	FA	SP	SU
WBL	134	Work-Based Learning III	FA	SP	SU
WBL	211	Work-Based Learning IV	FA	SP	SU
WBL	212	Work-Based Learning IV	FA	SP	SU
WBL	213	Work-Based Learning IV	FA	SP	SU
WBL	214	Work-Based Learning IV	FA	SP	SU

Course Descriptions

Classes labeled “*VLC” are available through the Virtual Learning Community (VLC).

Academic Related

ACA 115 Success & Study Skills

0 2 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. (*VLC)

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 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 to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

ACA 220 Professional Transition

1 0 1

Prerequisites: None

Corequisites: None

This course provides preparation for meeting the demands of employment or education beyond the community college experience. Emphasis is placed on strategic planning, gathering information on workplaces or colleges, and developing human interaction skills for professional, academic, and/or community life. Upon completion, students should be able to successfully make the transition to appropriate workplaces or senior institutions.

Accounting

ACC 120 Prin of Financial Accounting

3 2 4

Prerequisites: None

Corequisites: None

This course introduces business decision-making 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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

ACC 121 Prin of Managerial Accounting

3 2 4

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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

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. (VLC)

ACC 130 Business Income Taxes

2 2 3

Prerequisites: None

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

1 2 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. *This course is also available through the Virtual Learning Community (VLC).*

ACC 150 Accounting Software Applications

1 2 2

Prerequisites: ACC 115 or ACC 120

Corequisites: None

This course introduces microcomputer applications related to the major 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 solve accounting problems. *This course is also available through the Virtual Learning Community (VLC).*

ACC 180 Practices in Bookkeeping

3 0 3

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 business.

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 an extensive analyses of financial statements. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards.

ACC 221 Intermediate Accounting II

3 2 4

Prerequisites: ACC 220

Corequisites: None

This course is a continuation of ACC 220. Emphasis is placed on special problems which may include leases, bonds, investments, ratio analyses, present value applications, accounting changes, and corrections. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

ACC 227 Practices in Accounting

3 0 3

Prerequisites: ACC 220

Corequisites: None

This course provides an advanced in-depth study of selected topics in accounting using case studies and individual and group problem solving. Topics include cash flow, financial statement analysis, individual and group problem solving, practical approaches to dealing with clients, ethics and critical thinking. Upon completion, students should be able to demonstrate competent analytical skills and effective communication of their analysis in written and/or oral presentations.

ACC 240 Gov & Not-for-Profit Acctg

3 0 3

Prerequisites: ACC 121

Corequisites: None

This course introduces principles and procedures applicable to governmental and not-for-profit organizations. Emphasis is placed on various budgetary accounting procedures and fund accounting. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.

ACC 250 Adv Accounting

3 0 3

Prerequisites: ACC 220

Corequisites: None

This course is designed to analyze special accounting issues, which may include business combinations, partnerships, international accounting, estates, and trusts. Emphasis is placed on analyzing transactions and preparing working papers and financial statements. Upon completion, students should be able to solve a wide variety of problems by advanced application of accounting principles and procedures.

ACC 269 Audit & Assurance Services

3 0 3

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.

Air Conditioning, Heating, and Refrigeration

AHR 110 Intro to Refrigeration

2 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 instrumentation of the trade.

Competencies**Student Learning Outcomes**

1. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment covered in the course.
2. Identify and explain the theory, operating principle, and components of the refrigeration cycle.
3. Identify tools, materials, and equipment used in the refrigeration industry.
4. Evacuate, charge, recover, and safely operate a basic refrigeration /cooling system in accordance with EPA regulations.
5. Demonstrate refrigeration piping and soldering techniques.

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.

Competencies**Student Learning Outcomes**

1. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment

covered in the course.

2. Be able to use electrical test instruments.
3. Demonstrate knowledge of electricity as applied to heating, ventilation, air conditioning and refrigeration machines.
4. Identify the various electrical components used in HVAC equipment and explain their operation.
5. Use Ohm's Law to calculate the current, voltage, and resistance in a circuit.
6. Draw and interpret wiring schematics for installation and troubleshooting.
7. Follow systematic troubleshooting procedure to diagnose electrical problems and control circuit problems.

AHR 112 Heating Technology

2 4 4

Prerequisites: None

Corequisites: None

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.

Competencies**Student Learning Outcomes**

1. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment covered in the course.
2. Use industry terminology to describe principles for oil, gas, and electric warm air heating systems.
3. Identify the major components of oil, gas, and electric heating systems.
4. Install and start-up warm air heating systems.
5. Identify various types of energy sources used in heating and describe the individual characteristics of each.
6. Describe service procedures for heating systems.
7. Use tools and instruments necessary to troubleshoot and test system efficiency.

AHR 113 Comfort Cooling

2 4 4

Prerequisites: None

Corequisites: None

This course covers the installation procedures, system 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.

Competencies**Student Learning Outcomes**

1. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment covered in the course.
2. Evaluate system operation using psychometrics, manufacturer specifications, and test instruments.
3. Demonstrate methods of installing, testing, maintaining, and repairing comfort cooling systems.
4. Demonstrate use of test equipment and interpretation of test equipment results.
5. Identify refrigerants used in residential and light commercial comfort cooling systems and demonstrate the proper procedures for handling these refrigerants.

AHR 114 Heat Pump Technology

2 4 4

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.

Student Learning Outcomes

1. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment covered in the course.
2. Diagram refrigerant flow through a heat pump in both the heating and cooling mode identifying refrigerant conditions and pressures.
3. Explain the defrost cycle for air-to-air heat pumps.
4. Identify and troubleshoot electrical control system components for heat pumps.
5. Identify and troubleshoot refrigeration system components for heat pumps.
6. Identify and describe the different types of heat pumps in relation to their source of heat.

AHR 115 Refrigeration Systems

1 3 2

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

1 3 2

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 125 HVAC Electronics

1 3 2

Prerequisites:

Take one: AHR 111, ELC 111, or ELC 112

Corequisites: None

This course introduces the common electronic control components in HVAC systems. Emphasis is placed on identifying electronic components and their functions in HVAC systems and motor-driven control circuits. Upon completion, students should be able to identify components, describe control circuitry and functions, and use test instruments to measure electronic circuit values and identify malfunctions.

AHR 130 HVAC Controls

2 2 3

Prerequisites:

Take one: AHR 111, ELC 111, or ELC 112

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 system controls.

AHR 135 Transport Refrigeration

2 6 4

Prerequisites: AHR 110

Corequisites: None

This course introduces the equipment and components commonly found in commercial transport refrigeration systems. Topics include compressors, evaporators, metering devices, accessories, and related electrical components. Upon completion, students should be able to safely maintain, troubleshoot, and repair transport refrigeration components.

AHR 160 Refrigerant Certification

1 0 1

Prerequisites: None

Corequisites: None

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 180 HVACR Customer Relations

1 0 1

Prerequisites: None

Corequisites: None

This course introduces common business and customer relation practices that may be encountered in HVACR. Topics include business practices, appearance of self and vehicle, ways of handling customer complaints, invoices, telephone communications, and warranties. Upon completion, students should be able to present themselves to customers in a professional manner, understand how the business operates, complete invoices, and handle complaints.

AHR 210 Residential Building Code

1 2 2

Prerequisites: None

Corequisites: None

This course covers the residential building codes that are applicable to the design and installation of HVAC systems. Topics include current residential codes as applied to HVAC design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of residential building codes that apply to specific areas of the HVAC trade.

AHR 211 Residential System Design

2 2 3

Prerequisites: None

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

2 6 4

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.

Competencies

Student Learning Outcomes

1. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment covered in the course.
2. Identify components of water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps.
3. Compare and contrast standard and high efficiency heat pumps.
4. Design and size earth coupled piping loops for geothermal heat pump systems.
5. Describe geothermal heat pump operation.
6. Test duct systems for proper airflow and make adjustments.

AHR 213 HVACR Building Code

1 2 2

Prerequisites: None

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.

Competencies

Student Learning Outcomes

1. Apply the mechanical, gas, and energy code of North Carolina for designing, installing, maintaining and servicing HVACR systems.
2. Define terms and abbreviations using codes applicable to the HVACR trade.
3. Analyze information to conform to North Carolina mechanical, gas, and energy code.
4. Describe sources of authority and methods of enforcement.

AHR 235 Refrigeration Design

2 2 3

Prerequisites: AHR 110

Corequisites: None

This course covers the principles of commercial refrigeration system operation and design. Topics include walk-in coolers, walk-in freezers, system components, load calculations, equipment selection, defrost systems, refrigerant line sizing, and electric controls. Upon completion, students should be able to design, adjust, and perform routine service procedures on a commercial refrigeration system.

AHR 245 Chiller Systems

1 3 2

Prerequisites: AHR 110

Corequisites: None

This course introduces the fundamentals of liquid chilling equipment. Topics include characteristics of water, principles of water chilling, the chiller, the refrigerant, water and piping circuits, freeze prevention, purging, and equipment flexibility. Upon completion, students should be able to describe the components, controls, and overall operation of liquid chilling equipment and perform basic maintenance tasks.

Alternative Transportation Tech.**ATT 115 Green Trans Safety & Service**

1 2 2

Prerequisites: None

Corequisites: None

This course covers workplace safety, hazardous material and environmental regulation relevant to electric, hybrid and alternative fueled vehicles. Topics include safety of high voltage vehicle systems, gaseous fuel systems and alternative liquid fuels. Upon completion, students should be able to demonstrate safe work practices, utilize appropriate shop tools and explain government regulations associated with alternative transportation.

ATT 125 Hybrid-Electric Trans.

2 4 4

Prerequisites: Take TRN-120

Corequisites: None

This course covers the theory and operation of hybrid-electric drive vehicles. Topics include maintenance, diagnostics, repair and safety procedures for electrically propelled and hybrid vehicles. Upon completion, students should be able to perform diagnostics, maintenance and repair hybrid-electric drive vehicles.

ATT 140 Emerging Trans. Tech

2 3 3

Prerequisites: None

Corequisites: None

This course covers emerging technologies in the automotive industry and diagnostic procedures associated with those technologies. Topics include exploring new technologies, diagnostic tools, methods and repairs. Upon completion, students should be able to demonstrate practical skills applicable to emerging automotive technologies.

Architecture**ARC 112 Constr. Materials & Methods**

3 2 4

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.

Competencies

Student Learning Outcomes

1. Identify construction methods.
2. Identify traditional and sustainable construction materials and their properties.
3. Describe basic construction sequences for residential and commercial applications.
4. Demonstrate an understanding of construction related terminology.

Art**ART 111 Art Appreciation**

3 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. (*VLC)*

Class/Lab/Credit or Class/Lab/Exp./Credit
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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

ART 171 Digital Design I
 0 6 3
 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

ART 275 Introduction to Graphic Design
 0 6 3
 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 should 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

Class/Lab/Credit or Class/Lab/Exp./Credit
American Sign Language
ASL 111 Elementary ASL I
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course introduces the fundamental elements of American Sign Language within a cultural context. Emphasis is placed on the development of basic expressive and receptive skills. Upon completion, students will be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ASL 112 Elementary ASL II
 3 0 3
 Prerequisites: ASL 111
 Corequisites: None
 This course is a continuation of ASL 111 focusing on the fundamental elements of American Sign Language in a cultural context. Emphasis is placed on the progressive development of expressive and receptive skills. Upon completion, the students should be able to comprehend and respond with increasing accuracy to expressive American Sign Language and demonstrate cultural awareness. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ASL 181 ASL Lab I
 0 2 1
 Prerequisites: None
 Corequisites: None
 This course provides an opportunity to enhance acquisition of the fundamental elements of American Sign Language. Emphasis is placed on the progressive development of basic expressive and receptive skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ASL 182 ASL Lab II
 0 2 1
 Prerequisites: ASL 181
 Corequisites: None
 This course provides an opportunity to enhance acquisition of the fundamental elements of American Sign Language. Emphasis is placed on the progressive development of basic expressive and receptive skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to expressive American Sign Language and demonstrate cultural awareness. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

Astronomy

AST 151 General Astronomy I
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course introduces the science of modern astronomy with a concentration on the solar system. Emphasis is placed on the history and physics of

Class/Lab/Credit or Class/Lab/Exp./Credit
 astronomy and an introduction to the solar system, including the planets, comets, and meteors. Upon completion, students should be able to demonstrate a general understanding of the solar system. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

AST 151A General Astronomy I Lab
 0 2 1
 Prerequisites: None
 Corequisites: AST 151
 The course is a laboratory to accompany AST 151. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 151 and which provide practical experience. Upon completion, students should be able to demonstrate a general understanding of the solar system. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

AST 152 General Astronomy II
 3 0 3
 Prerequisites: AST 151
 Corequisites: None
 This course is a continuation of AST 151 with primary emphasis beyond the solar system. Topics include the sun, stars, galaxies, and the larger universe, including cosmology. Upon completion, students should be able to demonstrate a working knowledge of astronomy. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

AST 152A General Astronomy II Lab
 0 2 1
 Prerequisites: AST 151
 Corequisites: AST 152
 The course is a laboratory to accompany AST 152. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 152 and which provide practical experience. Upon completion, students should be able to demonstrate a working knowledge of astronomy. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

Automation and Robotics

ATR 112 Introduction to Automation
 2 3 3
 Prerequisites: None
 Corequisites: None

This course introduces the basic principles of automated systems 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: None
 Corequisites: None
 This course covers the operation of industrial robots. Topics include the classification of robots, activators, grippers, work envelopes, computer interfaces, overlapping work envelopes, installation, and program-

Class/Lab/Credit or Class/Lab/Exp./Credit
 ming. Upon completion, students should be able to install, program, and troubleshoot industrial robots.

Automotive

AUT 113 Automotive Servicing I

0 6 2
 Prerequisites: None
 Corequisites: None

This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment.

AUT 116 Engine Repair

2 3 3
 Prerequisites: None
 Corequisites: None

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 co-op 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 Systems

2 3 3
 Prerequisites: None
 Corequisites: None

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 & Steering Lab

0 3 1
 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.

Class/Lab/Credit or Class/Lab/Exp./Credit

AUT 151 Brake Systems

2 3 3
 Prerequisites: None
 Corequisites: None

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 Brakes Systems Lab

0 3 1
 Prerequisites: None
 Corequisites: AUT 151

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 drum and disc brakes involving hydraulic, vacuum-boost, hydra-boost, electrically powered boost, and anti-lock, parking brake systems and emerging brake systems technologies. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems.

AUT 161 Basic Auto Electricity

4 3 5
 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.

AUT 181 Engine Performance I

2 3 3
 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 and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

AUT 181A Engine Performance 1 Lab

0 3 1
 Prerequisites: None
 Corequisites: AUT 181

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 overviews of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices and emerging engine performance technologies. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information.

AUT 183 Engine Performance 2

2 6 4
 Prerequisites: AUT 181
 Corequisites: None

Class/Lab/Credit or Class/Lab/Exp./Credit

This course covers study of the electronic engine control systems, the diagnostic process used to locate engine performance concerns, and procedures used to restore normal operation. Topics will include currently used fuels and fuel systems, exhaust gas analysis, emission control components and systems, OBD II (on-board diagnostics) and inter-related electrical/electronic systems. Upon completion, students should be able to diagnose and repair complex engine performance concerns using appropriate test equipment and service information.

AUT 221 Auto Transmissions/Transaxles

2 3 3
 Prerequisites: None
 Corequisites: None

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 and diagnose and repair automatic drive trains.

AUT 221A Auto Transm./Transaxles Lab

0 3 1
 Prerequisites: None
 Corequisites: AUT 221

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 Manual Trans/Ax/Drtrains

2 3 3
 Prerequisites: None
 Corequisites: None

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 service and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory and diagnose and repair manual drive trains.

AUT 231A Manual Trans/Ax/Drtrains Lab

0 3 1
 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.

Biology

BIO 111 General Biology I

3 3 4
 Prerequisites: None
 Corequisites: None

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabo-

Class/Lab/Credit or Class/Lab/Exp./Credit
 lism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. (*VLC)*

BIO 112 General Biology II
 3 3 4

Prerequisites: BIO 111

Corequisites: None

This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. (*VLC)*

BIO 155 Nutrition
 3 0 3

Prerequisites: None

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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

BIO 163 Basic Anatomy and Physiology
 4 2 5

Prerequisites: None

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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

BIO 168 Anatomy and Physiology I
 3 3 4

Prerequisites: None

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 to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

Class/Lab/Credit or Class/Lab/Exp./Credit
BIO 169 Anatomy and Physiology II
 3 3 4

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

BIO 175 General Microbiology
 2 2 3

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

BIO 275 Microbiology
 3 3 4

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

Blueprint Reading

BPR 111 Print Reading
 1 2 2

Prerequisite: None

Corequisites: None

This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system.

Competencies

Student Learning Outcomes

- 1. Interpret symbols, abbreviations, and line types.
- 2. Identify and describe types of projection and use of views.
- 3. Draw freehand sketches.
- 4. Calculate measurements of features.
- 5. Identify and interpret dimensioning and tolerancing.

Class/Lab/Credit or Class/Lab/Exp./Credit

BPR 121 Blueprint Reading: Mechanical
 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 122 Blueprint Reading-Mechanical Advanced
 1 2 2

Prerequisites: BPR 121 or MAC 132

Corequisites: None

This course covers the interpretation of advanced blueprints. Topics include working drawings of complex parts and the applications of GD & T. Upon completion, students should be able to interpret drawings of complex parts and mechanisms for features of fabrication, construction, and assembly.

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.

Competencies

Student Learning Outcomes

1. Identify the different symbols and line types in a set of working drawings.
2. Correctly measure lines to a specific scale using an architectural or engineering scale.
3. Demonstrate proficiency in interpreting construction prints in the form of floor plans, elevations, details, schedules, and specifications.
4. Convert fractional dimensions to decimal dimensions and decimal dimensions to fractional dimensions.
5. Describe and explain the difference between working drawings and construction drawings.

BPR 135 Schematics & Diagrams
 2 0 2

Prerequisites: None

Corequisites: None

This course introduces schematics and diagrams used in a variety of occupations. Topics include interpretation of wiring diagrams, assembly drawings, exploded views, sectional drawings, and service manuals, specifications, and charts. Upon completion, students should be able to research and locate components and assemblies denoting factory specifications and requirements from service and repair manuals.

Business

BUS-110 Introduction to Business
 3 0 3

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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

Competencies

Student Learning Outcomes

1. Identify various forms of business organizations.
2. Define business vocabulary.
3. Describe the basics of business ethics.
4. Explain basic management principles.

Competencies

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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement (*VLC).*

Competencies

•Student Learning Outcomes

1. Identify the elements of a contract.
2. Describe the structure of the U.S. court system.
3. Identify laws, conditions and regulations in national and international work environments.

BUS 125 Personal Finance

3 0 3

Prerequisites: None

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 135 Principles of Supervision

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the basic responsibilities and duties of the supervisor and his/her relationship to higher-level supervisors, subordinates, and associates. Emphasis is placed on effective utilization of the work force and understanding the role of the supervisor. Upon completion, students should be able to apply supervisory principles in the work place. (*VLC)

BUS 137 Principles of Management

3 0 3

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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. (*VLC)*

Competencies

•Student Learning Outcomes

1. Explain strategic management in business operations.
2. Define management, quality management, and project management.
3. Identify relevant issues in human resource management.

BUS 147 Business Insurance

3 0 3

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

3 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. (*VLC)

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 230 Small Business Management

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the challenges of entrepreneurship including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan. (*VLC)

BUS 240 Business Ethics

3 0 3

Prerequisites: None

Corequisites: None

This course introduces contemporary and controversial ethical issues that face the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society.

BUS 253 Leadership and Mgt Skills

3 0 3

Prerequisites: None

Corequisites: None

This course includes a study of the qualities, behaviors, and personal styles exhibited by leaders. Emphasis is placed on coaching, counseling, team building, and employee involvement. Upon completion, students should be able to identify and exhibit the behaviors needed for organizational effectiveness.

BUS 260 Business Communication

3 0 3

Prerequisites: Take one: ENG 110 or ENG 111

Corequisites: None

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the work place. (*VLC)

BUS 280 REAL Small Business

4 0 4

Prerequisites: None

Corequisites: None

This course introduces hands-on techniques and procedures for planning and opening a small business, including the personal qualities needed for entrepreneurship. Emphasis is placed on market research, finance, time management, and day-to-day activities of owning/operating a small business. Upon completion, students should be able to write and implement a viable business plan and seek funding.

Carpentry

CAR 111 Carpentry I

3 15 8

Prerequisites: None

Corequisites: None

This course introduces the theory and construction methods associated with the building industry, including framing, materials, tools, and equipment. Topics include safety, hand/power tool use, site preparation, measurement and layout, footings and foundations, construction framing, and other related topics. Upon completion, students should be able to safely lay out and perform basic framing skills with supervision.

CAR 112 Carpentry II

3 15 8

Prerequisites: CAR 111

Corequisites: None

This course covers the advanced theory and construction methods associated with the building industry including framing and exterior finishes. Topics include safety, hand/power tool use, measurement and layout, construction framing, exterior trim and finish, and other related topics. Upon completion, students should be able to safely frame and apply exterior finishes to a residential building with supervision.

Cyber Crime Technology

CCT 110 Intro to Cyber Crime

3 0 3

Prerequisites: None

Corequisites: None

This course introduces and explains the various types of offenses that qualify as cyber crime activity. Emphasis is placed on identifying cyber crime activity and the

response to these problems from both the private and public domains. Upon completion, students should be able to accurately describe and define cyber crime activities and select an appropriate response to deal with the problem.

CCT 112 Ethics and High Technology
3 0 3

Prerequisites: None
Corequisites: None

This course covers ethical considerations and accepted standard practices applicable to technological investigations and computer privacy issues relative to the cyber crime investigator. Topics include illegal and unethical investigative activities, end-justifying-the-means issues, and privacy issues of massive personal database information gathered by governmental sources. Upon completion, students should be able to examine their own value systems and apply ethical considerations in identifiable cyber crime investigations.

CCT 121 Computer Crime Invest.
3 2 4

Prerequisites: None
Corequisites: None

This course introduces the fundamental principles of computer crime investigation processes. Topics include crime scene/incident processing, information gathering techniques, data retrieval, collection and preservation of evidence, preparation of reports and court presentations. Upon completion, students should be able to identify cyber crime activity and demonstrate proper investigative techniques to process the scene and assist in case prosecution.

CCT 231 Technology Crimes and Law
3 0 3

Prerequisites: None
Corequisites: None

This course covers the applicable technological laws dealing with the regulation of cyber security and criminal activity. Topics include an examination of state, federal and international laws regarding cyber crime with an emphasis on both general and North Carolina statutes. Upon completion, students should be able to identify the elements of cyber crime activity and discuss the trends of evolving laws.

CCT 240 Data Recovery Techniques
2 3 3

Prerequisites: None
Corequisites: None

This course introduces the unique skills and methodologies necessary to assist in the investigation and prosecution of cyber crimes. Topics include hardware and software issues, recovering erased files, overcoming encryption, advanced imaging, transient data, Internet issues and testimony considerations. Upon completion, students should be able to recover digital evidence, extract information for criminal investigation and legally seize criminal evidence.

CCT 250 Network Vulnerabilities I
2 2 3

Prerequisites: None
Corequisites: None

This course introduces students to penetration testing, network vulnerabilities, and hacking. Topics include an overview of traditional network security, system hardening, and known weaknesses. Upon completion, students should be able to evaluate weaknesses of traditional and wireless network for the purpose

of incident response, reconstruction, and forensic investigation.

CCT 251 Network Vulnerabilities II
2 2 3

Prerequisites: CCT 250
Corequisites: None

This course advances students' knowledge of penetration testing, network vulnerabilities, and hacking. Topics include analyzing advanced techniques for circumventing network security hardware and software. Upon completion, students should be able to assemble test kits for multiple operating systems, scan and footprint networks, and perform advanced forensic investigation.

CCT 285 Trends in Cyber Crime
2 2 3

Prerequisites: CCT 110
Corequisites: None

This course covers and explores advances and developments in cyber crime technologies. Emphasis is placed on computer forensics tools, information protection and security, threat response, and professional development. Upon completion, students should be able to articulate understanding of the current state of the industry as well as emerging technologies for cyber crime technology.

CCT 289 Capstone Project
1 6 3

Prerequisites: CCT 231 or CCT 220
Corequisites: None

This course provides experience in cyber crime investigations or technology security audits in either the public or private domain. Emphasis is placed on student involvement with businesses or agencies dealing with technology security issues or computer crime activities. Upon completion, students should be able to successfully analyze, retrieve erased evidence and testify in mock proceedings against these criminal entrepreneurs.

Chemistry

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by the college's placement test.

CHM 131 Introduction to Chemistry
3 0 3

Prerequisites: DMA 040
Corequisites: None

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. (*VLC)*

CHM 131A Introduction to Chemistry Lab
0 3 1

Prerequisites: DMA 040
Corequisites: CHM 131

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that

enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CHM 132 Organic and Biochemistry
3 3 4

Prerequisites: CHM 131 and CHM 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. (*VLC)*

CHM 151 General Chemistry I
3 3 4

Prerequisites: MAT 003

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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CHM 152 General Chemistry II
3 3 4

Prerequisites: CHM 151

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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CHM 251 Organic Chemistry I
3 3 4

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

CHM 252 Organic Chemistry II
3 3 4

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

CHM 271 Biochemical Principles

3 0 3

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

CHM 271A Biochemical Prin Laboratory

0 3 1

Prerequisites: CHM 252

Corequisites: CHM 271

This course is a laboratory for CHM 271. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 271. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 271. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Computer Information Systems**CIS 070 Fundamentals of Computing**

0 2 1

Prerequisites: None

Corequisites: None

This course covers fundamental functions and operations of the computer. Topics include identification of components, overview of operating systems, and other basic computer operations. Upon completion, students should be able to operate computers, access files, print documents and perform basic applications operations.

CIS 110 Introduction to Computers

2 2 3

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CIS 111 Basic PC Literacy

1 2 2

Prerequisites: None

Corequisites: None

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills. *This course is also available through the Virtual Learning Community (VLC).*

CIS 115 Intro to Programming & Logic

2 3 3

Prerequisites: Take One Set:

Set 1: DMA-010, DMA-020, DMA-030, and DMA-040

Set 2: DMA-025 and DMA-040

Set 3: MAT-121

Set 4: MAT-171

Set 5: MAT-003

Set 6: BSP-4003

Corequisites: 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.

Competencies

1. Apply control structures

2. Apply top-down algorithmic design.

3. Implement algorithmic solutions in a programming language. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in Mathematics (Quantitative).*

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. *This is a certificate-level course.*

CJC 111 Introd. 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 ICAA as a premajor and/or elective course requirement.*

CJC 112 Criminology

3 0 3

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 120 Interviews/Interrogations

1 2 2

Prerequisites: None

Corequisites: None

This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims.

CJC 121 Law Enforcement Operations

3 0 3

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, student 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. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

CJC 122 Community Policing

3 0 3

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 3

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 and Evidence

3 0 3

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.

Class/Lab/Credit or Class/Lab/Exp./Credit
CJC 141 Corrections
 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. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

CJC 144 Crime Scene Processing
 2 3 3
 Prerequisites: None
 Corequisites: None
 This course introduces the theories and practices of crime scene processing and investigating. Topics include legal considerations at the crime scene, processing indoor and outdoor scenes, recording, note taking, collection and preservation of evidence and submission to the crime laboratory. Upon completion, the student should be able to evaluate and search various crime scenes and demonstrate the appropriate techniques.

CJC 160 Terrorism: Underlying Issues
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scene; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning considerations involving threat assessments. Upon completion, students should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.

CJC 161 Intro. to Homeland Security
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course introduces the historical, organizational and practical aspects of Homeland Security. Topics include a historic overview, definitions and concepts, organizational structure, communications, technology, mitigation, prevention and preparedness, response and recovery, and the future of Homeland Security. Upon completion, students should be able to explain essential characteristics of terrorism and Homeland Security, and define roles, functions and interdependency between agencies.

CJC 212 Ethics and Comm. Relations
 3 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

Class/Lab/Credit or Class/Lab/Exp./Credit
 decision-making process in identifiable criminal justice situations.

CJC 231 Constitutional Law
 3 0 3
 Prerequisites: None
 Corequisites: None
 This 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 232 Civil Liability
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues.

Construction Management

CMT 120 Codes and Inspections
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course covers building codes and the code inspections process used in the design and construction of residential and commercial buildings. Emphasis is placed on commercial, residential, and accessibility (ADA) building codes. Upon completion, students should understand the building code inspections process and apply building code principals and requirements to construction projects.

Communication

For AA, AS, and AFA programs, 3 SHC in Speech/Communication may be substituted for 3 SHC in Humanities/Fine Arts. Speech/Communication may not substitute for the literature requirement.

COM 110 Intro. 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in English Composition. This course has been approved for transfer under the CAA and ICAA as a Communications course for the following degrees: AS, AA, AAS.*

COM 120 Intro. to Interpersonal Com.
 3 0 3
 Prerequisites: None
 Corequisites: None

Class/Lab/Credit or Class/Lab/Exp./Credit
 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in English Composition.*

COM 231 Public Speaking
 3 0 3
 Prerequisites: None
 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

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: none
 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: none
 This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring,

Class/Lab/Credit or Class/Lab/Exp./Credit
 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 and COS 112
 Corequisites: none

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 and COS 112
 Corequisites: none

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
 2 0 2

Prerequisites: COS 111 and COS 112
 Corequisites: none

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 and COS 112
 Corequisites: none

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: None
 Corequisites: None

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: None
 Corequisites: None

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

Class/Lab/Credit or Class/Lab/Exp./Credit
 color analysis. Upon completion, students should be able to safely and competently demonstrate esthetic services on clients in a salon setting.

COS 121 Manicure/Nail Technology I
 4 6 6

Prerequisites: None
 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

Prerequisites: None
 Corequisites: None

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: None
 Corequisites: None

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 Technology 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 224 Trichology & Chemistry
 1 3 2

Prerequisites: None
 Corequisites: None

This course is a study of hair and the interaction of applied chemicals. Emphasis is placed on pH actions and the reactions and effects of chemical ingredients. Upon completion, students should be able to demonstrate an understanding of chemical terminology, pH testing, and chemical reactions on hair.

COS 240 Contemporary Design
 1 3 2

Prerequisites: COS 111 and COS 112
 Corequisites: None

This course covers methods and techniques for contemporary designs. Emphasis is placed on contemporary designs and other related topics. Upon completion, students should be able to demonstrate and apply techniques associated with contemporary design.

Class/Lab/Credit or Class/Lab/Exp./Credit
COS 250 Computerized Salon Ops
 1 0 1

Prerequisites: None
 Corequisites: None

This course introduces computer and salon software. Emphasis is placed on various computer and salon software applications. Upon completion, students should be able to utilize computer skills and software applications in the salon setting.

COS 251 Manicure Instructor Concepts
 8 0 8

Prerequisites: None
 Corequisites: NC Cosmetology or Manicurist License and six months work experience in a cosmetic arts salon

This course introduces manicuring 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 supervision techniques, and assess student classroom performance.

COS 252 Manicure Instructor Practicum
 0 15 5

Prerequisites: NC Cosmetology or Manicurist License and six months work experience in a cosmetic arts salon
 Corequisites: COS 251

This course covers supervisory and instructional skills for teaching manicuring students in a laboratory setting. Topics include demonstrations of services, supervision, student assessment, and other related topics. Upon completion, students should be able to demonstrate competence in the areas covered by the Manicuring Instructor Licensing Examination and meet program completion requirements.

COS 253 Esthetics Ins. Concepts I
 6 15 11

Prerequisites: None
 Corequisites: None

This course introduces esthetic instructional concepts and skills. Topics include orientation, theories of education, unit planning, daily lesson plans, laboratory management, student assessment in a laboratory setting. Upon completion, students should be able to demonstrate esthetic services and instruct and objectively assess student performance in a classroom setting.

COS 254 Esthetic Ins. Concepts II
 6 15 11

Prerequisites: None
 Corequisites: None

This course covers advanced esthetic instructional concepts and skills. 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 demonstrate competencies in the areas covered by the Esthetics Instructor Licensing examination and meet program requirements.

COS 271 Instructor Concepts I
 5 0 5

Prerequisites: Cosmetology License and six months experience as a licensed cosmetologist
 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

Class/Lab/Credit or Class/Lab/Exp./Credit
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: Cosmetology License and six months experience as a licensed cosmetologist
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 and 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 and 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. *This is a certificate-level course.*

Computer Science

CSC 134 C++ Programming
2 3 3

Prerequisites: None
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 to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

CSC 151 JAVA Programming
2 3 3

Prerequisites: None
Corequisites: None
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*

Class/Lab/Credit or Class/Lab/Exp./Credit
been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. This course available through VLC.

Construction

CST 131 OSHA/Safety/Certification
2 3 3

Prerequisites: None
Corequisites: None
This course covers the concepts of work site safety. Topics include OSHA regulations, tool safety, and certifications which relate to the construction industry. Upon completion, students should be able to identify and maintain a safe working environment based on OSHA regulations and maintain proper records and certifications.

CST 221 Statics/Structures
3 3 4

Prerequisites: Take one set:
Set 1: ARC-112 and MAT-110
Set 2: ARC-112 and MAT-121
Set 3: ARC-112 and MAT-171
Set 4: CAR-112 and MAT-110
Set 5: CAR-112 and MAT-121
Set 6: CAR-112 and MAT-171
Set 7: CST-112 and MAT-110
Set 8: CST-112 and MAT-121
Set 9: CST-112 and MAT-171
Corequisites: None

This course covers the principles of statics and strength of materials as applied to structural building components. Topics include forces on columns, beams, girders, and footings and connection points when timber, steel, and concrete members are used. Upon completion, students should be able to accurately analyze load conditions present in structural members.

CST 241 Planning/Estimating I
2 3 3

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.

Computer Technology Integration

CTI 110 Web, PGM and Db Management
2 2 3

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.

Competencies

1. Apply basic principles of programming logic.
2. Create a simple website with mark-up tools.
3. Create a simple database table.

Class/Lab/Credit or Class/Lab/Exp./Credit
CTI 120 Network & Security Foundations
2 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.

Competencies

1. Perform basic calculations necessary for network operations.
2. Identify the components of local and wide area networks.
3. Identify security risks to a networked information system.

CTI 140 Virtualization Concepts
1 4 3

Prerequisites: None
Corequisites: None
This course introduces operating system virtualization. Emphasis is placed on virtualization terminology, virtual machine storage, virtual networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of virtual machines.

Computer Information Technology

CTS 115 Info Sys Business Concept
3 0 3

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 to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

CTS 120 Hardware/Software Support
2 3 3

Prerequisites: None
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: None
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.

Class/Lab/Credit or Class/Lab/Exp./Credit
CTS 135 Integrated Software Intro.

2 4 4

Prerequisites: None

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 285 Systems Analysis & Design

3 0 3

Prerequisites: CIS 115

Corequisites: None

This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.

CTS 289 System Support Project

1 4 3

Prerequisites: CTS 285

Corequisites: None

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.

Database Management Technology

DBA 110 Database Concepts

2 3 3

Prerequisites: CIS 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.

Design Drafting

DDF 110 Cabinet Design/Drafting

1 2 2

Prerequisites: DFT 117

Corequisites: None

This course covers the production of shop drawings and equipment lists. Topics include the use of orthographic projections and axonometric, oblique, and perspective projections in production drawings. Upon completion, students should be able to design and produce a set of plans that will facilitate the economical production of a project.

Class/Lab/Credit or Class/Lab/Exp./Credit

Design

DES 135 Principles & Elements of Design I

2 4 4

Prerequisites: None

Corequisites: None

This course introduces the basic concepts and terminology of design as they relate to the design profession. Topics include line, pattern, space, mass, shape, texture, color, unity, variety, rhythm, emphasis, balance, proportion, scale, and function. Upon completion, students should be able to demonstrate an understanding of the principles covered through hands-on application.

Drafting

DFT 119 Basic CAD

1 2 2

Prerequisites: None

Corequisites: None

This course introduces computer-aided drafting software for specific technologies to non-drafting majors. Emphasis is placed on understanding the software command structure and drafting standards for specific technical fields. Upon completion, students should be able to create and plot basic drawings.

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.

Drama/Theatre

DRA 111 Theatre Appreciation

3 0 3

Prerequisites: None

Corequisites: None

This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

DRA 126 Storytelling

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the art of storytelling and the oral traditions of folk literature. Topics include the history of storytelling, its value and purpose, techniques of the storyteller, and methods of collecting verbal art. Upon completion, students should be able to present and discuss critically stories from the world's repertory of traditional lore. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Class/Lab/Credit or Class/Lab/Exp./Credit

Economics

ECO 251 Principles of Microeconomics

3 0 3

Prerequisites: None

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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

ECO 252 Principles of Macroeconomics

3 0 3

Prerequisites: None

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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Education

EDU 119 Intro to Early Child Education

4 0 4

Prerequisites: None

Corequisites: None

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for children. Topics include historical foundations, program types, career options, professionalism, and creating inclusive environments and curriculum that are responsive to the needs of children and families. Upon completion, students should be able design career plans and develop appropriate schedules, environments and activity plans for children. (*VLC)

EDU 131 Child, Family, & Commun

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

Class/Lab/Credit or Class/Lab/Exp./Credit
including appropriate use of technology to support every child.

EDU 144 Child Development I
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 and ICAA as a premajor and/or elective course requirement.*

EDU 145 Child Development II
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 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 and ICAA as a premajor and/or elective course requirement.*

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 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

Class/Lab/Credit or Class/Lab/Exp./Credit
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 153 Health, Safety, & Nutrition
3 0 3

Prerequisites: None
Corequisites: None

This course covers promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, safe learning environments, and adhere to state regulations. *This course is also available through the Virtual Learning Community (VLC).*

EDU 184 Early Childhood Intro Prac
1 3 2

Prerequisites: EDU 119
Corequisites: None

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting in the implementation of developmentally appropriate activities/environments for all children; and modeling reflective/professional practices. Upon completion, students should be able to demonstrate developmentally appropriate interactions with children and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

EDU 187 Teaching and Learning For All
3 3 4

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
4 0 4

Prerequisites: None
Corequisites: None

This course introduces the American educational system and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in K-12 classrooms. Upon completion, students

Class/Lab/Credit or Class/Lab/Exp./Credit
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 and ICAA as a premajor and/or elective course requirement.*

EDU 221 Children With Exceptionalities
3 0 3

Prerequisites: Take one set:
Set 1: EDU-144, EDU-145
Set 2: PSY-244 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 and ICAA as a premajor and/or elective course requirement.*

EDU 234 Infants, Toddlers, and Twos
3 0 3

Prerequisites: Take 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 250 Teacher Licensure Preparation
3 0 3

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

Class/Lab/Credit or Class/Lab/Exp./Credit
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 252 Math & Sci Activities
3 0 3

Prerequisites: None
Corequisites: None
This course introduces discovery experiences in math and science. Topics include concepts, facts, phenomena, and skills in each area. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate developmentally appropriate curriculum materials.

EDU 261 Early Childhood Admin I
3 0 3

Prerequisites: None
Corequisites: Take 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
3 0 3

Prerequisites: Take All: 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 270 Effective Instructional Envir.
2 0 2

Prerequisites: None
Corequisites: None
This course is designed to provide learners with the knowledge and skills to create, manage, and assess effective instructional environments, learning attitudes, and behaviors for today's diverse learning population. Topics include organizing the learning environment, fostering positive learning attitudes, supporting healthy stakeholder partnerships, engaging students using effective differentiated instruction, guiding, and managing student behaviors, and assessing student progress. Upon completion of this course, learners will demonstrate effective dispositions of the professional educator that include managing schedules, spaces, and resources, promoting supportive learning mindsets, engaging students with diverse instructional strategies, guiding student behaviors to maximize both the instructional and social climate, and analyzing and effectively responding to student progress.

Class/Lab/Credit or Class/Lab/Exp./Credit
EDU 271 Educational Technology
2 2 3

Prerequisites: None
Corequisites: None
This course introduces the ethical use of technology to enhance teaching and learning in all educational settings. Emphasis is placed on technology concepts, ethical issues, digital citizenship, instructional strategies, assistive technology, and the use of technology for professional development and communication. Upon completion, students should be able to discuss technology concepts, ethically use a variety of technology resources, demonstrate appropriate technology skills in educational environments, and identify assistive technology.

EDU 272 Technology, Data and Assess.
2 3 3

Prerequisites: None
Corequisites: None
This course is designed to provide students with the knowledge and skills to utilize digital instructional technologies and technology-based assessments to plan and implement appropriate educational experiences and interventions in the classroom. Topics include educational technology to enhance instruction, instructional technologies for teaching, technology-based assessment, formative and summative assessments, data to inform practice, and ethical practices for technology and assessment. Upon completion, students will be able to demonstrate effective integration of educational technology into classroom practice, appropriate use of technology-based assessments, and practical application of data to inform educational planning and interventions.

EDU 277 Integr. CU Inst.: Math/Science
2 3 3

Prerequisites: None
Corequisites: None
This course is designed to provide learners with the content knowledge, instructional methods/materials, and assessment techniques needed to provide research-based math and science K - 12 instruction. Topics include essential math and science concepts and skills, developmentally appropriate pedagogy, culturally responsive instruction, standards-based outcomes, technology enhanced lesson planning, formative/summative assessments, research-based interventions, authentic learning experiences, and reflective practice. Upon completion, learners will be able to plan, implement, assess, and reflect on developmentally appropriate math and science instruction aligned to the NC Standard Course of Study, other professional and national standards.

EDU 278 Integr. CU Inst.: Soc Stu/ELA
2 3 3

Prerequisites: None
Corequisites: None
This course is designed to provide learners with the content knowledge, instructional methods/materials, and assessment techniques needed to provide research-based social studies and ELA K - 12 instruction. Topics include essential social studies and ELA concepts and skills, developmentally appropriate pedagogy, culturally responsive instruction, standards-based outcomes, technology enhanced lesson planning, formative/summative assessments, research-based interventions, authentic learning experiences, and reflective practice. Upon completion, learners will be able to plan, implement, assess, and reflect on developmentally appropriate social studies and ELA instruction aligned to the NC

Class/Lab/Credit or Class/Lab/Exp./Credit
Standard Course of Study, other professional and national standards.

EDU 279 Literacy Develop and Instruct
3 3 4

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
3 0 3

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 281 Instruct. Strat./Read & Writ
2 2 3

Prerequisites: None
Corequisites: None
This course covers concepts, resources, and methods for teaching reading and writing to elementary through middle-grade children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches and instructional strategies. Upon completion, students should be able to assess, plan, implement and evaluate school-age literacy experiences as related to the North Carolina Standard Course of Study.

EDU 283 Educator Preparation Practicum
2 3 3

Prerequisites: None
Corequisites: None
This course is designed to allow learners to demonstrate acquired skills and competencies in a developmentally appropriate learning environment. Topics include dispositions of effective teachers, portfolio assessment development, reflective practice, teaching methods, assessment strategies, and professional practices based on state and national Teaching Standards. Upon completion, learners should be able to provide a portfolio assessment with evidence of ethical/professional standards, respect for a diverse population in learning environments, content knowledge, appropriate guidance intervention, and grade-level

Class/Lab/Credit or Class/Lab/Exp./Credit
technology enhanced lesson planning/assessments through practices in the classroom environment.

EDU 284 Early Child Capstone Prac
1 9 4
Prerequisites Take One Set:
Set 1: EDU-119, EDU-144, EDU-145, EDU-146, and EDU-151
Set 2: EDU-119, PSY-244, PSY-245, EDU-146, and EDU-151
Set 3: EDU-119, PSY-245, EDU-144, EDU-146, and EDU-151
Set 4: EDU-119, PSY-244, EDU-145, EDU-146, and EDU-151
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.

Electricity

ELC 111 Intro to Electricity
2 2 3
Prerequisites: None
Corequisites: None
This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronics 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 112 DC/AC Electricity
3 6 5
Prerequisite: None
Corequisites: None
This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment; and other related topics. Upon completion, students should be able to construct, verify, and analyze simple DC/AC circuits.

Competencies
•1. Demonstrate safe practices and procedures with tools, materials, and industry accepted test equipment covered in the course.
•2. Demonstrate appropriate use of test equipment, evaluate circuit performance and apply appropriate troubleshooting techniques to electrical circuits.
•3. Construct and analyze series, parallel and combinations circuits using appropriate components.
•4. Use appropriate laws and formulas to perform circuit calculations.
•5. Interpret electrical schematics.
•6. Describe the characteristics of various power sources.

Class/Lab/Credit or Class/Lab/Exp./Credit
ELC 113 Residential Wiring
2 6 4
Prerequisite: 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. 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 be able to properly install conduits, wiring, and electrical distribution equipment associated with residential electrical installations.

Competencies
•Student Learning Outcomes
•1. Identify and demonstrate safe practices and procedures with tools, materials and industry accepted test equipment covered in the course.
•2. Demonstrate appropriate use of test equipment, evaluate circuit performance and apply appropriate troubleshooting techniques to residential electrical circuits.
•3. Draw, plan and interpret electrical plans and symbols used in residential applications
•4. Identify, size, and install wiring and electrical distribution equipment and devices associated with residential electrical installations in accordance with the National Electrical Code.
•5. Recognize and demonstrate appropriate use of tools and materials that are used in residential wiring.

ELC 115 Industrial Wiring
2 6 4
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.
Competencies
Student Learning Outcomes
1. Identify and demonstrate safe practices and procedures with tools, materials and industry accepted test equipment covered in the course.
2. Demonstrate appropriate use of test equipment, evaluate circuit performance and apply appropriate troubleshooting techniques to industrial electrical circuits.
3. Draw, plan, and interpret electrical plans and symbols used in industrial applications.
4. Identify, size, and install wiring and electrical distribution equipment and devices associated with industrial electrical installations in accordance with the National Electrical Code.
5. Recognize and demonstrate appropriate use of tools and materials that are used in industrial wiring.

ELC 118 National Electrical Code
1 2 2
Prerequisites: None
Corequisites: : None
This course covers the use of the current National Electrical Code. 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 119 NEC Calculations
1 2 2
Prerequisites: None
Corequisites: : None

Class/Lab/Credit or Class/Lab/Exp./Credit
This course covers branch circuit, feeder, and service calculations. Emphasis is placed on sections of the National Electrical Code related to calculations. Upon completion, students should be able to use appropriate code sections to size wire, conduit, and overcurrent devices for branch circuits, feeders, and service.

ELC 128 Intro to PLC
2 3 3
Prerequisite: 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 understand basic PLC systems and create simple programs.

Competencies
•Student Learning Outcomes
•1. Identify and demonstrate safe practices and procedures with tools, materials and industry accepted test equipment covered in the course.
•2. List and describe the hardware components used in PLC systems.
•3. Utilize numbering systems as applied to PLCs.
•4. Demonstrate and describe the use of various PLC instruction sets.
•5. Create various simple PLC programs using the appropriate instruction set.
•6. Apply appropriate troubleshooting methods to PLCs.

ELC 130 Advanced Motors/Controls
2 3 3
Prerequisite: Take One: ELC-111, ELC-112, ELC-131, or ELC-138
Corequisites: None
This course introduces the programmable logic control. This course covers motors concepts, construction and characteristics and provides a foundation in motor controls. Topics include motor control ladder logic, starters, timers, overload protection, braking, reduced voltage starting, SCR control, AC/DC drives, system and component level troubleshooting. Upon completion, students should be able to specify, connect, control, troubleshoot, and maintain motors and motor control systems.

ELC 131 Circuit Analysis
3 3 4
Prerequisite: None
Corequisites: None
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.

Competencies
Student Learning Outcomes
•1. Identify and describe the operation of components used in DC/AC circuits.
•2. Apply math formulas and circuit theorems in the analyses of DC/AC Circuits.
•3. Locate and select DC/AC devices using component specifications based on circuit requirements.
•4. Construct series, parallel and combination circuits.

- 5. Select and demonstrate the use of appropriate test equipment to analyze circuit operation.
- 6. Using appropriate troubleshooting techniques evaluate circuit performance applying suitable repair methods.
- 7. Identify and demonstrate safe workplace practices.

ELC 131A **Circuit Analysis I Lab** 0 3 1

Prerequisite: None

Corequisites: None

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 213 **Instrumentation** 3 2 4

Prerequisites: None

Corequisites: ELC 131

This course covers the fundamentals of instrumentation used in industry. Emphasis is placed on electric, electronic, and other instruments. Upon completion, students should be able to install, maintain, and calibrate instrumentation.

Electronics

ELN 131 **Analog Electronics** 3 3 4

Prerequisites: None

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.

Competencies

Student Learning Outcomes

1. Identify and describe operation of semiconductor devices.
2. Analyze where and how analog components are used.
3. Locate and select analog devices using component specifications based on circuit requirements.
4. Construct operational circuits using analog devices.
5. Select and demonstrate the use of appropriate test equipment to analyze circuit operation.
6. Using appropriate troubleshooting techniques evaluate circuit performance applying suitable repair methods.
7. Identify and demonstrate safe workplace practices.

ELN 133 **Digital Electronics** 3 3 4

Prerequisite: None

Corequisites: None

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.

Competencies

•Student Learning Outcomes

- 1. Identify and describe the operation of digital electronic devices and circuits.
- 2. Analyze where and how digital electronics circuits are used.
- 3. Locate and select digital electronic devices using component specifications based on circuit requirements.
- 4. Construct operational circuits using digital devices.
- 5. Select and demonstrate the use of appropriate test equipment to analyze circuit operation.
- 6. Using appropriate troubleshooting techniques evaluate circuit performance applying suitable repair methods.
- 7. Identify and demonstrate safe workplace practices.

ELN 135 **Electronic Circuits** 2 3 3

Prerequisites: None

Corequisites: None

This course covers discrete component amplifiers, power supplies, wave-shaping, oscillators, and special purpose ICs. Topics include feedback, analog arithmetic circuits, current and voltage sources, amplifiers, timers, filters, regulators, and other related circuits. Upon completion, students should be able to determine, by the configuration, the function of common analog circuits and troubleshoot circuits based on applications.

ELN 140 **Semiconductor Devices** 4 6 6

Prerequisites: None

Corequisites: None

This course covers semiconductor devices and circuits as they apply to the area of electronic servicing. Topics include semiconductor theory, diodes, transistors, linear integrated circuits, biasing, amplifiers, power supplies, and other related topics. Upon completion, students should be able to construct, verify, analyze, and troubleshoot semiconductor circuits.

ELN 141 **Digital Fundamentals** 4 6 6

Prerequisites: None

Corequisites: None

This course covers combinational and sequential logic circuits. Topics include number systems, logic elements, Boolean algebra, Demorgan's theorem, logic families, flip flops, registers, counters, and other related topics. Upon completion, students should be able to analyze, verify, and troubleshoot digital circuits.

ELN 231 **Industrial Controls** 2 3 3

Prerequisites: None

Corequisites: None

This course introduces the fundamental concepts of control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electromechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret schematics and demonstrate an understanding of electromechanical and electronic control of rotating machinery.

ELN 233 **Microprocessor Systems** 3 3 4

Prerequisites: None

Corequisites: None

This course covers the application and design of microprocessor control systems. Topics include control and interfacing of systems using AD/DA, serial/parallel I/O, communication protocols, and other related applications. Upon completion, students should be able to design, construct, program, verify, analyze, and troubleshoot fundamental microprocessor interface and control circuits using related equipment.

ELN 247 **Electronic App Project** 1 3 2

Prerequisites: None

Corequisites: None

This course provides a structured approach to an application-oriented electronics project. Emphasis is placed on selecting, planning, implementing, testing, and presenting an application-oriented project. Upon completion, students should be able to present and demonstrate an electronics application-oriented project.

ELN 275 **Troubleshooting** 1 3 2

Prerequisites: None

Corequisites: None

This course covers techniques of analyzing and repairing failures in electronic equipment. Topics include safety, signal tracing, use of service manuals, and specific troubleshooting methods for analog, digital, and other electronics-based circuits and systems. Upon completion, students should be able to logically diagnose and isolate faults and perform necessary repairs to meet manufacturers' specifications.

Emergency Medical Services

EMS 110 **EMT** 6 6 3 9

Prerequisites: None

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: Take EMS 110

Corequisites: None

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.

EMS 130 **Pharmacology** 3 3 0 4

Prerequisites: Take EMS 110

Corequisites: None

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: Take 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: None

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 160 **Cardiology I**

2 3 0 3

Prerequisites: Take 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**

2 3 0 3

Prerequisites: Take All: EMS-122, EMS-130, and EMS-160

Corequisites: None

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: Take One: EMS-121 or EMS-122

Corequisites: None

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 Practicum III**

0 0 9 3

Prerequisites: Take 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 235 **EMS Management**

2 0 0 2

Prerequisites: None

Corequisites: None

This course stresses the principles of managing a modern emergency medical service system. Topics include structure and function of municipal governments, EMS grantsmanship, finance, regulatory agencies, system management, legal issues, and other topics relevant to the EMS manager. Upon completion, students should be able to understand the principles of managing emergency medical service delivery systems.

EMS 240 **Patients With Special Challenges**

1 2 0 2

Prerequisites: Take All: 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: Take 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: Take All: 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

Prerequisites: Take All: 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, and 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 **Lifespan Emergencies**

3 3 0 4

Prerequisites: Take All: 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 285 **EMS Capstone**

1 3 0 2

Prerequisites: Take All: EMS-220, EMS-250, and EMS-260

Corequisites: None

This course provides an opportunity to demonstrate problem-solving 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.

Engineering

EGR 125 **Appl Software for Tech**

1 2 2

Prerequisite: None

Corequisites: 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 programs 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 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. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

EGR 220 **Engineering Statistics**

3 0 3

Prerequisite: 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. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

English

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by the college's placement test.

ENG 001 English Skills Support

0 2 1

Prerequisites: None
Corequisites: None

This course is designed to supplement the skills introduced in ENG-111 with emphasis placed on the editing and revision components of the writing process. Topics include concepts, skills, writing in a variety of genres and formats using a recursive process, and effective use of rhetorical strategies, with emphasis placed on the editing and revision components of the writing process. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English.

ENG 002 Transition English

0 6 3

Prerequisites: None
Corequisites: None

This course provides an opportunity to customize foundational English content in specific 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 college-level English. Upon completion, students should be able to build a stronger foundation for success in their gateway level English courses by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.

ENG 002 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.

ENG 101 Applied Communications I

3 0 3

Prerequisites: None
Corequisites: None

This course is designed to enhance reading and writing skills for the workplace. Emphasis is placed on technical reading, job-related vocabulary, sentence writing, punctuation, and spelling. Upon completion, students should be able to identify main ideas with supporting details and produce mechanically correct short writings appropriate to the workplace. *This is a diploma-level course.*

ENG 111 Writing and Inquiry

3 0 3

Prerequisites: Take one set:

Set 1: DRE-097

Set 2: ENG-002

Set 3: BSP-4002

Corequisites: English 011

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.*

Competencies

Student Learning Outcomes

1. Demonstrate writing as a recursive process.
2. Demonstrate writing and inquiry in context using different rhetorical strategies to reflect, analyze, explain, and persuade in a variety of genres and formats.
3. Students will reflect upon and explain their writing strategies.
4. Demonstrate the critical use and examination of printed, digital, and visual materials.
5. Locate, evaluate, and incorporate relevant sources with proper documentation.
6. Compose texts incorporating rhetorically effective and conventional use of language.
7. Collaborate actively in a writing community.

ENG 112 Writing/Research in the Disciplines

3 0 3

Prerequisites: 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 course has been approved for transfer under the CAA as a general education course in English Composition. This course has been approved for transfer under the ICAA as a general education course in English Composition.*

ENG 125 Creative Writing

3 0 3

Prerequisites: 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 and ICAA as a premajor and/or elective course requirement.

ENG 231 American Literature I

3 0 3

Prerequisites: ENG 112, ENG 113, 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 interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. (*VLC)*

Competencies

Student Learning Outcomes

1. Describe, analyze, interpret and evaluate features of literary texts in several genres, applying appropriate literary and cultural terms.
2. Critically analyze and interpret American literature from its beginnings to 1865 within historical and cultural contexts.
3. Write critical essays about American literature that integrate primary and secondary sources using MLA documentation and standard academic written conventions.

ENG 232 American Literature II

3 0 3

Prerequisites: ENG 112, ENG 113, 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 interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. (*VLC)*

Competencies

1. Describe, analyze, interpret, and evaluate features of literary texts in several genres, applying appropriate literary and cultural terms.
2. Critically analyze and interpret American literature from 1865 to the present within historical and cultural contexts.
3. Write critical essays about American literature that integrate primary and secondary sources using MLA documentation and standard academic written conventions.

ENG 241 British Literature I

3 0 3

Prerequisites: ENG 112, ENG 113, 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. (*VLC)*

ENG 242 British Literature II

3 0 3

Prerequisites: ENG 112, ENG 113, 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. (*VLC)*

ENG 272 Southern Literature

3 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course provides an analytical study of the works of several Southern authors. Emphasis is placed on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

ENG 273 African-American Literature

3 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. (*VLC)*

Emergency Preparedness

EPT 120 Sociology of Disaster

3 0 3

Prerequisites: None

Corequisites: None

This course is designed to overview sociological disaster research, disaster systems, and alternative research approaches. Topics include human and organizational behaviors, long disaster impact on communities, disaster warning, and evacuation considerations. Upon completion, students should be able to assess and predict the impact of disaster-related human behavior.

EPT 124 EM Services Law and Ethics

3 0 3

Prerequisites: None

Corequisites: None

This course covers federal and state laws that affect emergency service personnel in the event of a natural disaster or terrorist incident. Topics include initial response and long-term management strategies, with an emphasis on legal and ethical considerations and coordination between local, state, and federal agencies. Upon completion, students should have an understanding of the role of private industry, government agencies, public policies, and federal/state declarations of disasters in emergency situations.

EPT 130 Mitigation & Preparedness

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the mitigation and preparation techniques and methods necessary to minimize the impact of natural, technological, and man-made disaster. Topics include hazard identification and mapping, design and construction applications, financial incentives, insurance, structural controls, preparation, planning, assessment, implementation, and exercises. Upon completion, students should be able to develop a mitigation and preparedness plan.

EPT 140 Emergency Management

3 0 3

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.

EPT 150 Incident Management

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the National Incident Management System (NIMS). Topics include integrating command and control systems, maintaining communication within command and control systems, and using NIMS procedures. Upon completion, students should be able to demonstrate knowledge of key concepts necessary for operating within the National Incident Management System.

EPT 210 Response and Recovery

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the basic concepts, operational procedures, and authorities involved in response and recovery efforts to major disasters. Topics include federal, state, and local roles and responsibilities in major disaster, response, and recovery work, with an emphasis on governmental coordination. Upon completion, students should be able to implement a disaster response plan and assess the needs of those involved in a major disaster.

EPT 220 Terrorism and Emergency Mgt.

3 0 3

Prerequisites: None

Corequisites: None

This course covers preparing for, responding to, and safely mitigating terrorism incidents. Topics include the history of terrorism, scene hazards, evidence preservation, risk assessment, roles and responsibilities, explosive recognition, and terrorism planning. Upon completion, student should be able to recognize the threat of terrorism and operate within the emergency management framework at a terrorism incident.

EPT 275 Emergency Ops Center Mgt.

3 0 3

Prerequisites: None

Corequisites: None

This course provides students with the knowledge and skills to effectively manage and operate an emergency operations center (EOC) during crisis situations. Topics include properly locating and designing and EOC, staffing, training and briefing EOC personnel, and how to operate an EOC. Upon completion, students should be able to demonstrate how to set up and operate an effective emergency operations center.

Fire Protection

FIP 110**Fire Prot./Rest. & Hotels**

1 0 1

Prerequisites: None

Corequisites: None

This course provides a general overview of fire protection terms and devices and their use as found in hotels, motels, and restaurants. Topics include understanding ventilation hood systems, alarms, in-house fire brigades, and other related topics. Upon completion, students should be able to operate a fire extinguisher and demonstrate knowledge of fire alarm systems, emergency features, and fire service terminology.

Competencies

• Student Learning Outcomes

1. Provide an overview of fire protection terms and devices.
2. Operate a fire extinguisher properly.
3. Demonstrate knowledge of fire alarms and their maintenance.
4. Describe the importance of alarms in commercial structures.

FIP 120**Intro. to Fire Protection**

3 0 3

Prerequisites: None

Corequisites: None

This course provides an overview of the development, methods, systems and regulations that apply to the fire protection field. Topics include history, evolution, statistics, suppression, organizations, careers, curriculum, and related subjects. Upon completion, students should be able to demonstrate a broad understanding of the fire protection field.

Competencies

• Student Learning Outcomes

1. Illustrate and explain the history and culture of the fire service.
2. Discuss and describe the scope, purpose, and organizational structure of fire and emergency services.
3. Identify protection and emergency-service careers in both the public and private sector.
4. Describe the importance of wellness and fitness as it related to emergency services.
5. Identify the primary responsibilities of fire prevention personnel including: code enforcement, public information, and public and private fire protection systems.

FIP 124**Fire Protection and Public Ed.**

3 0 3

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.

Competencies

• Student Learning Outcomes

1. Describe the relationship of fire prevention as it relates to the community.
2. Demonstrate an educational program for delivery to a defined audience.
3. Demonstrate the ability to gather research about fire deaths in the United States and knowledge of how fire prevention impacts this data.
4. Describe inspection practices and procedures.
5. Define the laws, rules, regulations, and codes and identify those relevant to fire prevention of the authority having jurisdictions.

FIP 132 Building Construction
3 0 3

Prerequisites: None
Corequisites: None

This course covers the principles and practices referenced 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.

Competencies**• Student Learning Outcomes**

1. Describe building construction as it relates to fire fighter safety, building codes, fire prevention, code enforcement, firefighting strategy and tactics.
2. Analyze the hazards and tactical considerations associated with given types of building construction.
3. Explain the correlation of loads and stresses that are built on building during fires and fire suppression activities.
4. Identify the indicators of potential structural failure as they relate to fire fighter safety.
5. Classify major types of building construction according to materials and methods used.

FIP 146 Fire Protection Systems
3 2 4

Prerequisites: None
Corequisites: None

This course Introduces various types of automatic sprinklers, standpipes, fire alarm systems, and fixed and portable extinguishing systems referenced in NFPA standard 25, including their operation, installation, and maintenance. Topics include wet and dry systems, testing and maintenance, water supply requirements, fire detection and alarm systems, including application, testing, and maintenance of Halon, carbon dioxide, dry chemical, and special extinguishing agents utilized in fixed and portable systems. Upon completion, students should be able to demonstrate a working knowledge of sprinkler and alarm systems, both fixed and portable, including appropriate application, operation, inspection, and maintenance requirements.

Competencies**• Student Learning Outcomes**

1. Identify the various types of automatic extinguishing systems.
2. Describe the proper procedure to maintain an extinguishing system.
3. Determine the design requirements for sprinklers and standpipes in a designated building.
4. Demonstrate a working knowledge of various sprinklers and alarm systems.
5. Define the proper application and maintenance of various sprinklers and alarm systems.

FIP 162 Firefighter Safety and Wellness
3 0 3

Prerequisites: None
Corequisites: None

The purpose of this course is to reduce firefighter injuries and fatalities by discussing topics that impact firefighter safety. Emphasis is placed on national standards, the 16 Life Safety Initiatives, and current events to identify changes needed to create a culture of safety. Upon completion, students should be able to define and describe the need for cultural and behavioral changes within the emergency services.

FIP 176 HazMat: Operations
4 0 4

Prerequisites: None
Corequisites: None

This course is designed to increase first responder awareness of the type, nature, physiological effects of, and defensive techniques for mitigation of HazMat incidents. Topics include recognition, identification, regulations and standards, zoning, resource usage, defensive operations, and other related topics. Upon completion, students should be able to recognize and identify the presence of hazardous materials and use proper defensive techniques for incident mitigation.

Competencies**• Student Learning Outcomes**

1. Describe the nature and physiological effects of a hazardous materials event.
2. Describe defensive techniques for mitigation of a hazardous materials event.
3. Demonstrate the ability to use the emergency response guide.
4. Demonstrate the ability to recognize and identify the presence of hazardous materials.

FIP 180 Wildland Fire Behavior
3 0 3

Prerequisites: None
Corequisites: None

This course covers the principles of wildland fire behavior and meteorology referenced in NFPA standard 1143. Emphasis is placed on fire calculations, fuels, and related weather effects. Upon completion, students should be able to demonstrate and apply fire behavior theories through written and performance evaluations.

Competencies**• Student Learning Outcomes**

1. Determine the role of fuels, topography, and atmospheric conditions that leads to extreme fire behavior.
2. Define the important determinants of wildland fire occurrence and behavior.
3. Identify the fire's effects on and interactions with the ecosystem properties, processes, and components.
4. Analyze the social and political forces that affect wildland fire, and explain how they can be incorporated into land management decisions.
5. Demonstrate knowledge of risk/hazard Assessment and Mitigation concerning wildland fires.

FIP 184 Wildland Fire Safety
3 0 3

Prerequisites: None
Corequisites: None

This course covers safety principles used when working in the wildland fire environment referenced in NFPA standard 1143. Emphasis is placed on personal safety and working with equipment, aircraft, and fire-ground operations. Upon completion, students should be able to understand and demonstrate fire safety procedures through written and performance evaluations.

Competencies**• Student Learning Outcomes**

1. Demonstrate knowledge of how the Incident Command System is used in relation to a major wildland fire scenario.
2. Demonstrate knowledge of safe practices of wildland firefighting.
3. Compare and contrast structural firefighting strategies and tactics with those of wildland fires.
4. Define the 18 Watch Out situation and 10 Standing Firefighting Orders in wildland firefighting.
5. Demonstrate the ability to gather research about wildland fire deaths in the United States.
6. Identify aircraft safety precautions during all phases of wildland firefighting.

FIP 220 Fire Fighting Strategies
3 0 3

Prerequisites: None
Corequisites: None

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, fire-ground 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.

Competencies**• Student Learning Outcomes**

1. Identify and define the main functions within the National Incident Management System (NIMS) and how they interrelate during an incident.
2. Explain how pre-incident plan information is gathered using pre-formatted forms and methods for storing and retrieving pre-plan information.
3. Compare construction methods in terms of structural stability, fire extension, and fuel contribution.
4. Describe the 16 Firefighter Life Safety Initiatives and apply them to fire department operations.
5. Describe and compare offensive, defensive, and transitional fire attack methods for appropriate conditions and scenarios.

FIP 228 Local Govt. Finance
3 0 3

Prerequisites: None
Corequisites: None

This course introduces local governmental financial principles and practices. Topics include budget preparation and justification, revenue policies, statutory requirements, audits, and the economic climate. Upon completion, students should be able to comprehend the importance of finance as it applies to the operations of a department.

Competencies**• Student Learning Outcomes**

1. Define the types of budgets and typical usage for each type.
2. Define and describe the different types of revenue fire departments receive including the advantages and disadvantages of each.
3. Develop and present a budget for a capital outlay.
4. Prepare a budget and written justification for the budget for presentation.
5. Define basic finance and budgeting principles in relation to governmental agencies.

FIP 229 Fire Dynamics and Combust.
3 0 3

Prerequisites: None
Corequisites: None

This course covers the theories and fundamentals of how and why fires start and spread, and how they are safely controlled reference in NFPA standard 1001. Topics include components of fire, fire sources, fire behavior, properties of combustible solids, classification of hazards, and the use of fire extinguishing agents. Upon completion, students should be able to describe the properties of matter and dynamics of fire, identify fuel sources, and compare suppressants and extinguishment techniques.

Competencies**• Student Learning Outcomes**

1. Describe the theories and fundamentals of fire behavior.
2. Determine classifications of fire.

3. Describe the properties of matter and dynamics of fire.
4. Describe different fire sources and compare different suppressants and extinguishment techniques.

FIP 232 Water and Hydraulics Dist.

2 2 3

Prerequisites: None

Corequisites: None

This course covers the flow of fluids through fire hoses, nozzles, appliances, pumps, standpipes, water mains, and other devices referenced in NFPA standard 25. Emphasis is placed on supply and delivery systems, fire flow testing, hydraulic calculations, and other related topics. Upon completion, students should be able to perform hydraulic calculations, conduct water availability tests, and demonstrate knowledge of water distribution systems.

Competencies**• Student Learning Outcomes**

1. Describe flow of water through various appliances.
2. Describe pumping system.
3. Demonstrate the ability to perform hydraulic calculations.
4. Demonstrate knowledge of a water distribution system.

French**FRE 111 Elementary French I**

3 0 3

Prerequisites: None

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 to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

FRE 112 Elementary French II

3 0 3

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Geology**GEL 111 Geology**

3 2 4

Prerequisites: None

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 course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

Competencies

1. Explain fundamental geologic concepts including earth structure, plate tectonics, rocks and minerals, rock cycle, crustal deformation, surficial processes, earth resources and geohazards.
2. Apply the basic methods of scientific inquiry in the context of geology.
3. Recognize and quantify the operation of Earth system processes over geologic and human timescales and over local, regional and global spatial scales.
4. Manipulate, interpret and construct visualizations of geologic data using maps, graphs, and contemporary technology.
5. Demonstrate an appreciation for the societal relevance of geology and the impact of humans on the earth system.

Gerontology**GRO 120 Gerontology**

3 0 3

Prerequisites: None

Corequisites: None

This course covers the psychological, social, and physical aspects of aging. Emphasis is placed on the factors that promote mental and physical well-being. Upon completion, students should be able to recognize the aging process and its psychological, social, and physical aspects.

Graphic Design**GRD 110 Typography I**

2 2 3

Prerequisites: None

Corequisites: None

This course introduces the history and mechanics of type and its application to layout and design. Topics include typographic fundamentals, anatomy, measurements, composition, identification, and terminology. Upon completion, students should be able to demonstrate proficiency in design application, analysis, specification, and creation of typographic elements.

GRD 113 History of Graphic Design

3 0 3

Prerequisites: None

Corequisites: None

This course covers the history of graphic design and visual communications. Topics include major trends, developments, influences, and directions. Upon completion, students should be able to understand, recognize, and analyze important historical and world-wide cultural influences found in today's marketing of ideas and products.

GRD 121 Drawing Fundamentals I

1 3 2

Prerequisites: None

Corequisites: None

This course increases observation skills using basic drawing techniques and media in graphic design. Emphasis is placed on developing the use of graphic design principles, media applications, spatial considerations, drawing styles, and approaches. Upon completion, students should be able to show competence and proficiency in finished works.

GRD 131 Illustration I

1 3 2

Prerequisites: ART 131, DES 125, or GRD 121

Corequisites: None

This course introduces the application of rendering techniques to create illustrations. Emphasis is placed on controlling various media, methods, surfaces,

design problems, and the appropriate media selection process. Upon completion, students should be able to produce quality illustrations from conception through finished artwork.

GRD 141 Graphic Design I

2 4 4

Prerequisites: None

Corequisites: None

This course introduces the conceptualization process used in visual problem solving. Emphasis is placed on learning the principles of design and on the manipulation and organization of elements. Upon completion, students should be able to apply design principles and visual elements to projects.

GRD 142 Graphic Design II

2 4 4

Prerequisites: ART 121, DES 135, or GRD 141

Corequisites: None

This course covers the application of visual elements and design principles in advertising and graphic design. Topics include creation of various designs, such as logos, advertisements, posters, outdoor advertising, and publication design. Upon completion, students should be able to effectively apply design principles and visual elements to projects.

GRD 151 Computer Design Basics

1 4 3

Prerequisites: None

Corequisites: None

This course covers designing and drawing with various types of software applications for advertising and graphic design. Emphasis is placed on creative and imaginative use of space, shapes, value, texture, color, and typography to provide effective solutions to advertising and graphic design problems. Upon completion, students should be able to use the computer as a creative tool.

GRD 152 Computer Design Tech I

1 4 3

Prerequisites: GRD 151

Corequisites: None

This course covers complex design problems utilizing various design and drawing software applications. Topics include the expressive use of typography, image, and organization to communicate a message. Upon completion, students should be able to use appropriate computer software to professionally present their work.

GRD 160 Photo Fundamentals I

1 4 3

Prerequisites: None

Corequisites: None

This course introduces basic camera operations, roll film processing, and photographic print production. Topics include contrast, depth-of-field, subject composition, enlarger operation, and density control. Upon completion, students should be able to produce photographic prints with acceptable density values and quality.

GRD 180 Interactive Design

1 4 3

Prerequisites: GRD 151 or GRA 151

Corequisites: None

This course covers skills and techniques used in designing interactive presentations. Emphasis is placed on design, including interface design, color, illustration, scripting, audio, typography, and animated elements. Upon completion, students should be able to design and produce interactive presentations.

GRD 241 Graphic Design III
2 4 4

Prerequisites: DES 136 or GRD 142

Corequisites: None

This course is an advanced exploration of various techniques and media for advertising and graphic design. Emphasis is placed on advanced concepts and solutions to complex and challenging graphic design problems. Upon completion, students should be able to demonstrate competence and professionalism in visual problem solving.

GRD 242 Graphic Design IV
2 4 4

Prerequisites: GRD 241

Corequisites: None

This course is a continuation of GRD 241. Emphasis is placed on using advanced media techniques, concepts, strategies, and professionalism in all aspects of design. Upon completion, students should be able to conceptualize, create, and produce designs for reproduction.

GRD 249 Advanced Design Practice
1 9 4

Prerequisites: GRD 241

Corequisites: None

This course covers advanced techniques used in graphic design. Emphasis is placed on providing solutions to complex design problems. Upon completion, students should be able to demonstrate advanced levels of competence and professionalism in visual problem solving.

GRD 263 Illustrative Imaging
1 4 3

Prerequisites: GRD 151 or GRA 151

Corequisites: None

This course covers the creative manipulation of images utilizing digital techniques of masking, layering, airbrushing, and painting. Topics include the aesthetic analysis of visual imagery as well as the legalities of manipulating images. Upon completion, students should be able to utilize software applications to creatively manipulate and illustratively build digital images which accomplish design objectives.

GRD 271 Multimedia Design I
1 3 2

Prerequisites: GRD 151

Corequisites: None

This course introduces the fundamentals of multimedia design and production for computer-related presentations. Topics include interface design, typography, storyboarding, scripting, simple animation, graphics, digital audiovideo, and copyright issues. Upon completion, students should be able to design and produce multimedia presentations.

GRD 280 Portfolio Design
2 4 4

Prerequisites: GRD 142 and GRD 152 or GRA 152

Corequisites: None

This course covers the organization and presentation of a design/advertising or graphic art portfolio and appropriate related materials. Emphasis is placed on development and evaluation of the portfolio, design and production of a résumé and self-promotional materials, and interview techniques. Upon completion, students should be able to prepare and professionally present an effective portfolio and related self-promotional materials.

GRD 281 Design of Advertising
2 0 2

Prerequisites: None

Corequisites: None

This course explores the origins, roles, scope, forms, and development of advertising. Emphasis is placed on advertising development from idea through production and the interrelationship of marketing to types of advertising, media, and organizational structure. Upon completion, students should be able to demonstrate an understanding of the complexities and relationships involved in advertising design.

GRD 285 Client/Media Relations
1 2 2

Prerequisites: GRD 142 and GRD 152

Corequisites: None

This course introduces media pricing, scheduling, and business ethics. Emphasis is placed on communication with clients and determination of clients' advertising needs. Upon completion, students should be able to use professional communication skills to effectively orchestrate client/media relationships.

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 and ICAA as a premajor and/or elective course requirement.*

Health Information Technology

HIT 110 Intro to Healthcare and HIM
3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces healthcare settings and the Health Information Management (HIM) professional's role in healthcare delivery systems. Topics include health information management operations in compliance with standards, regulations and accrediting body initiatives; healthcare providers and disciplines; and electronic health records (EHRs). Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions and trends.

HIT 112 Health Law and Ethics
3 0 0 3

Prerequisites: None

Corequisites: None

This course covers the study of the judicial, legislative, and regulatory standards applicable to health care and health information processes. Topics include legal terminology, confidentiality, privacy, security, access and disclosure of health information, ethical implications, data stewardship, and the integrity of the legal health record. Upon completion, students should be able to apply policies, procedures and ethical standards in compliance with external forces.

HIT 114 Health Data Sys/Standards
2 3 0 3

Prerequisites: None

Corequisites: None

This course covers concepts and techniques for managing and maintaining all health record formats including electronic health records (EHR). Topics include structure and use of health information including data collection and analysis, data sources/sets, archival systems, as well as quality and integrity of healthcare data. Upon completion, students should be able to determine compliance of health record content and governance standards within the health organization.

HIT 122 Prof Practice Exp I
0 0 3 1

Prerequisites: None

Corequisites: None

This course provides supervised and/or simulated health information technology clinical experience in healthcare settings. Emphasis is placed on practical application of HIM functions and core curriculum concepts. Upon completion, students should be able to apply health information theory to healthcare facility practices.

HIT 124 Prof Practice Exp II
0 0 3 1

Prerequisites: None

Corequisites: None

This course provides supervised clinical experience in healthcare settings. Emphasis is placed on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices.

HIT 210 Healthcare Statistics
2 2 0 3

Prerequisites: MAT 110 or 143

Corequisites: None

This course covers maintenance, compilation, analysis, and presentation of healthcare statistics and research protocols and techniques. Topics include basic statistical principles, indices, databases, registries, vital statistics, descriptive statistics, research protocol monitoring, Institutional Review Board processes, and knowledge-based research techniques. Upon completion, students should be able to apply, interpret, and present healthcare statistics and utilize research techniques to gather and interpret healthcare data.

HIT 211 Diagnosis Coding & Reporting
2 3 0 3

Prerequisites: None

Corequisites: None

This course covers diagnostic coding and sequencing utilizing the current version of the ICD code set for inpatient, outpatient and ambulatory care settings. Emphasis is placed on the rules and conventions of the ICD official coding guidelines in relation to anatomy, physiology and disease processes. Upon completion, students should be able to accurately assign and sequence diagnosis codes in compliance with the ICD official coding guidelines for reporting statistical data, patient outcomes and reimbursement methodologies.

HIT 213 Inpt Proc Coding & Reporting
1 3 0 2

Prerequisites: None

Corequisites: None

This course covers the application of coding guidelines as applied to the reporting of inpatient procedures. Emphasis is placed on the rules and conventions of

Class/Lab/Credit or Class/Lab/Exp./Credit
the ICD-PCS code set utilizing the index and tables, in relation to anatomy and physiology to assign principal and secondary procedure codes in hospital inpatient settings. Upon completion, students should be able to accurately assign procedural codes according to the official ICD-PCS coding guidelines and evaluate compliance with regulatory requirements and reimbursement methodologies.

HIT 214 OP Procedure Coding/Reporting

1 3 0 2

Prerequisites: HIT 211

Corequisites: None

This course covers application of coding and reporting standards as they apply to Current Procedural Terminology (CPT) guidelines and principles. Emphasis is placed on application of the coding guidelines, in relation to anatomy and physiology, for ambulatory healthcare settings. Upon completion, students should be able to assign CPT/HCPCS procedural codes according to official guidelines and evaluate compliance with regulatory requirements and reimbursement methodologies.

HIT 215 Revenue Cycle Management

1 3 0 2

Prerequisites: None

Corequisites: None

This course covers the revenue cycle management process used in all healthcare settings as they relate to national billing, compliance, and reporting requirements. Topics include clinical documentation improvement, prospective payment systems, billing processes and procedures, chargemaster maintenance, regulatory guidelines, fraud and abuse, reimbursement monitoring, compliance strategies and reporting. Upon completion, students should be able to perform data quality reviews to validate code assignment and comply with reimbursement and reporting requirements.

HIT 216 Quality Management

1 3 0 2

Prerequisites: HIT 114

Corequisites: None

This course introduces principles of quality assessment and improvement, and utilization, risk, and case management, in healthcare. Topics include Continuous Quality Improvement, and case management processes, data analysis/reporting techniques, credentialing, regulatory quality monitoring requirements, and outcome measures and monitoring. Upon completion, students should be able to abstract, analyze, and report clinical data for facility-wide quality management/performance improvement programs and monitor compliance measures.

HIT 217 Quality & Data Analysis

2 3 0 3

Prerequisites: MAT 152

Corequisites: None

This course covers the principles of quality assessment and improvement, including data analysis and decision making in healthcare. Topics include healthcare statistics, continuous quality improvement, data analysis and reporting techniques, quality and outcome metric monitoring. Upon completion, students should be able to compute healthcare statistics, abstract, analyze and report clinical data for organization-wide

Class/Lab/Credit or Class/Lab/Exp./Credit
quality and performance improvement programs for compliance purposes.

HIT 218 Mgmt Principles in HIT

3 0 0 3

Prerequisites: None

Corequisites: None

This course covers organizational management concepts as applied to healthcare settings. Topics include leadership skills, managing organizational change, best practices, decision-making, financial management, cultural diversity, ethics, consumer engagement, and workforce training. Upon completion, students should be able to apply management, leadership, and supervisory concepts to various healthcare settings.

HIT 220 Electronic Health Records

1 2 0 2

Prerequisites: None

Corequisites: None

This course covers EHR systems, design, implementation and application. Topics include EHR, informatics, information governance, health information exchange (HIE), speech & imaging technology, information/network security & integrity, data dictionaries, modeling and warehousing. Upon completion, students should be able to facilitate usage of electronic health record systems and other technologies.

HIT 221 Lifecycle of EHR

2 2 0 3

Prerequisites: None

Corequisites: None

This course covers the concepts and features of an electronic health record (EHR) system in integrated delivery networks. Topics include administrative and clinical functions such as patient management, privacy and security aspects, clinical documentation and reporting, coding and billing, data management and analytics, CDSS and quality improvement, and implementation of electronic health record systems. Upon completion, students should be able to understand the principles of an EHR and how to utilize EHR software to improve the quality and efficiency of operations in healthcare.

HIT 222 Prof Practice Exp III

0 0 6 2

Prerequisites: HIT 122

Corequisites: None

This course provides supervised and/or simulated health information technology clinical experience in healthcare settings. Emphasis is placed on practical application of HIM functions and core curriculum concepts. Upon completion, students should be able to apply health information theory to healthcare facility practices.

HIT 225 Healthcare Informatics

2 3 0 3

Prerequisites: None

Corequisites: None

This course covers data analysis to support decision making, patient care, and regulatory compliance.

Class/Lab/Credit or Class/Lab/Exp./Credit
Topics include clinical terminology and vocabulary systems, data capture methodology, data presentation and reporting, and initiatives to improve the quality of patient care. Upon completion, students should be able to identify data elements and sets, analyze capture methodology in healthcare settings, analyze compliance issues and make improvement recommendations.

HIT 226 Pathophysiology & Pharmacology

2 3 0 3

Prerequisites: BIO 163 or BIO 166

or BIO 169

Corequisites: None

This course covers principles of disease and the associated pharmacological treatments. Emphasis is placed on physical signs and symptoms, prognoses, common complications and therapeutic options. Upon completion, students should be able to relate disease processes to physical signs and symptoms, prognosis, common complications and their management.

HIT 227 Informatics Project Mgt.

2 2 0 3

Prerequisites: None

Corequisites: None

This course covers the required skills needed for implementing healthcare IT applications, with emphasis on electronic health records (EHR). Topics include leadership development skills, interdisciplinary collaboration, organizational change management, project management software, and the study of communication skills required across healthcare disciplines. Upon completion, students should be able to effectively collaborate and communicate with healthcare disciplines to implement informatics projects within the healthcare setting.

HIT 280 Professional Issues

2 0 0 2

Prerequisites: HIT 211

Corequisites: None

This course provides a comprehensive discussion of topics common to the health information profession. Emphasis is placed on application of professional competencies, job search tools, and preparation for the certification examination. Upon completion, students should be able to demonstrate competence in entry-level domains and subdomains for health information technologies.

Healthcare Management

HMT 110 Intro to Healthcare Mgt.

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the functions, practices, organizational structures, and professional issues in healthcare management. Emphasis is placed on planning, controlling, directing, and communicating within health and human services organizations. Upon completion, students should be able to apply the concepts of management within a healthcare service environment.

HMT 210 Medical Insurance

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the concepts of medical insurance. Topics include types and characteristics of third-party payers, coding concepts, payment systems, and manual/electronic claims form preparation. Upon completion, students should be able to process third-party claims forms.

HMT 211 Longterm Care Admin.
3 0 3

Prerequisites: None
Corequisites: None

This course introduces the administration of long-term care facilities and services. Emphasis is placed on nursing home care, home health care, hospice, skilled nursing facilities, and other long-term care services. Upon completion, students should be able to distinguish between the different long-term care offerings, criteria for use, and benefits of the patient, resident, and participant.

History

HIS 111 World Civilizations I
3 0 3

Prerequisites: None
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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

HIS 112 World Civilizations II
3 0 3

Prerequisites: None
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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

HIS 131 American History I
3 0 3

Prerequisites: None
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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. (*VLC)*

HIS 132 American History II
3 0 3

Prerequisites: None
Corequisites: None

This course is a survey of American history from the Civil War era to the present. Topics include in-

dustrialization, immigration, the Great Depression, the major American 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. *VLC)*

Humanities

HUM 110 Technology and Society
3 0 3

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 premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

HUM 115 Critical Thinking
3 0 3

Prerequisites: Take One Set

Set 1: DRE 098

Set 2: ENG 090 and RED 090

Set 3: ENG 095

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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

HUM 120 Cultural Studies
3 0 3

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 and ICAA as a general education course in Humanities/Fine Arts.*

HUM 122 Southern Culture
3 0 3

Prerequisites: None
Corequisites: None

This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Hydraulics

HYD 110 Hydraulics/Pneumatics I
2 3 3

Prerequisites: None
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. Emphasis will be placed on drawing of hydraulic and pneumatic circuits. Competencies

Student Learning Outcomes

1. Identify and demonstrate safe practices and procedures with tools, materials and industry accepted test equipment covered in the course.
2. Demonstrate appropriate use of test equipment, evaluate circuit performance and apply appropriate troubleshooting techniques to fluid power systems.
3. Identify components of fluid power systems using symbols and schematics.
4. Assemble a fluid power system.
5. Calculate and demonstrate the basic physics of fluid mechanics.

Industrial Science

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.

Competencies

Student Learning Outcomes

1. Describe and identify safety practices required to perform various job-related activities.
2. Describe the application of OSHA procedures and requirements for compliance. (*VLC)

ISC 115 Construction Safety
2 0 2

Prerequisites: None
Corequisites: None

This course introduces the basic concepts of construction site safety. Topics include ladders, lifting, lock-out/tag-out, personal protective devices, scaffolds, and above/below ground work based on OSHA regulations. Upon completion, students should be able to demonstrate knowledge of applicable safety regulations and safely participate in construction projects.

ISC 121 Envir Health & Safety
3 0 3

Prerequisites: None
Corequisites: None

This course covers workplace environmental, health, and safety issues. 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 issues.

Class/Lab/Credit or Class/Lab/Exp./Credit
ISC 130 Intro to Quality Control
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course introduces the philosophies, principles, and techniques of managing quality. Topics include the functions, responsibilities, structures, costs, reports, personnel, and vendor-customer relationships associated with quality control and management. Upon completion, students should be able to demonstrate an understanding of quality control and management.

ISC 210 Oper & Prod Planning
 3 0 3
 Prerequisites: None
 Corequisites: None
 This course includes the fundamentals of operations and production planning, forecasting, and scheduling. Topics include demand management, production planning and control, scheduling, and budgeting. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques involved in operations and production planning. *This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.*

Light Duty Diesel
LDD 112 Intro Light Duty Diesel
 2 2 3
 Prerequisites: None
 Corequisites: None
 This course covers the history, evolution, basic design and operational parameters for light-duty diesel (LDD) engines used in on-road applications. Topics include familiarization with the light-duty diesel, safety procedures, engine service and maintenance procedures, and introduction to combustion and emission chemistry. Upon completion, students should be able to describe the design and operation of the LDD, perform basic service operations, and demonstrate proper safety procedures.

LDD 181 LDD Fuel Systems
 2 6 4
 Prerequisites: None
 Corequisites: None
 This course covers the light-duty diesel fuel delivery systems in on-road applications including hydraulic electronically controlled unit injectors, common-rail, mechanical pumps, and emerging technologies. Topics include diesel combustion theory, fuel system components, electronic and mechanical controls, and fuel types and chemistries that are common to the light-duty diesel engines. Upon completion, students should be able to demonstrate skills necessary to inspect, test, and replace fuel delivery components using appropriate service information and tools.

Machining

MAC 114 Introduction to Metrology
 2 0 2
 Prerequisites: None
 Corequisites: None
 This course introduces the care and use of precision measuring instruments. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion, students should be able to demonstrate the correct

Class/Lab/Credit or Class/Lab/Exp./Credit
 use of measuring instruments.
MAC 121 Intro to CNC
 2 0 2
 Prerequisites: None
 Corequisites: None
 This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. 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: None
 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
 Prerequisites: None
 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 4
 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: None
 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 143 Machining Applications III
 2 6 4
 Prerequisites: None
 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.

Class/Lab/Credit or Class/Lab/Exp./Credit
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: None
 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: None
 Corequisites: 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
 1 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 231 CAM: CNC Turning
 1 4 3
 Prerequisite: None
 Corequisites: None
 This course introduces Computer Numerical Control graphics programming and concepts for turning center applications. Emphasis is placed on the interaction of menus to develop a shape file in a graphics CAM system and to develop tool path geometry and part geometry. Upon completion, students should be able to develop a job plan using CAM software, including machine selection, tool selection, operational sequence, speed, feed, and cutting depth.

MAC 232 CAM: CNC Milling
 1 4 3
 Prerequisite: None
 Corequisites: None
 This course introduces Computer Numerical Control graphics programming and concepts for machining center applications. Emphasis is placed on developing a shape file in a graphics CAM system and transferring coded information from CAM graphics to the CNC milling center. Upon completion, students should be able to develop a complete job plan using CAM software to create a multi-axis CNC program.

MAC 247 Production Tooling
 2 0 2
 Prerequisites: None
 Corequisites: None

This course provides advanced study in tooling currently utilized in the production of metal parts. Emphasis is placed on the proper use of tooling used on CNC and other production machine tools. Upon completion, students should be able to choose proper tool grades based on manufacturing requirements and troubleshoot carbide tooling problems.

Maintenance

MNT 110 Intro to Maint Procedures 1 3 2

Prerequisite: 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.

Competencies

Student Learning Outcomes

- 1. Identify and demonstrate safe practices and procedures with tools, materials and industry accepted test equipment covered in the course.
- 2. Identify and demonstrate use of hand tools.
- 3. Identify grades of bolts and fasteners and demonstrate proper tightening techniques
- 4. Describe the operation of and assemble mechanical power transmissions and systems.
- 5. Identify bearings, seals, gaskets, and packing material and demonstrate appropriate assembly techniques.
- 6. Perform preventative and predictive maintenance and mechanical troubleshooting.

Masonry

MAS 140 Introduction to Masonry 1 2 2

Prerequisites: None
Corequisites: None

This course introduces basic principles and practices of masonry. Topics include standard tools, materials, and practices used in basic masonry and other related topics. Upon completion, students should be able to demonstrate an understanding of masonry and be able to use basic masonry techniques.

Mathematics

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by that college's placement test.

MAT 003 Transition Math 0 6 3

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 and Literacy Support 0 2 1

Prerequisites: None
Corequisites: None

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 1 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 1 2 2

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 1 2 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 Pre-Calculus Algebra Support 0 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 Math Measurement & Literacy 2 2 3

Prerequisites: Take one set:

Set 1: DMA-010, DMA-020, and DMA-030

Set 2: DMA-025

Set 3: MAT-003

Set 4: BSP-4003

Corequisites: Take 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.

Competencies

Student Learning Outcomes

1. Demonstrate estimation skills and justify results.
2. Use dimensional analysis to convert units of measurement.
3. Employ fractions, percentages and proportions to solve contextual problems.
4. Compute geometric measurements of perimeter, area, volume and angles.
5. Use technology to analyze and interpret elements of personal finance.
6. Compare and contrast measures of center and measures of dispersion.
7. Interpret tables, charts, and graphs and communicate results.

MAT 121 Algebra and Trigonometry I 2 2 3

Prerequisites: Take one set:

Set 1: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050

Set 2: DMA-025, DMA-040, DMA-050

Set 3: DMA-025, DMA-045

Set 4: DMA-010, DMA-020, DMA-030, DMA-045

Set 5: MAT-003

Set 6: BSP-4003

Corequisites: Take 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 will be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

Competencies

·Student Learning Outcomes

1. Use geometric principles to solve industrial application problems involving perimeter, area, and volume.
2. Employ basic algebraic operations to simplify, evaluate, and solve proportions, radical and other algebraic functions, equations, and inequalities.
3. Perform basic algebraic operations involving complex numbers.
4. Solve applied problems using trigonometric principles involving right triangles.
5. Solve applied problems using systems of equations involving two and three variables.
6. Use technology to solve practical problems and communicate results.

MAT 143 Quantitative Literacy

2 2 3

Prerequisites: Take One Set:

- Set 1: DMA-010, DMA-020, DMA-030, and DRE-098
 Set 2: DMA-010, DMA-020, DMA-030, and ENG-002
 Set 3: DMA-010, DMA-020, DMA-030, and BSP-4002
 Set 4: DMA-025, and DRE-098
 Set 5: DMA-025, and ENG-002
 Set 6: DMA-025, and BSP-4002
 Set 7: MAT-003 and DRE-098
 Set 8: MAT-003 and ENG-002
 Set 9: MAT-003 and BSP-4002
 Set 10: BSP-4003 and DRE-098
 Set 11: BSP-4003 and ENG-002
 Set 12: BSP-4003 and BSP-4002

Corequisites: Take 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 should be able to utilize quantitative information as consumers and 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 course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative). This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).*

Competencies

·Student Learning Outcomes

1. Judge the reasonableness of results using estimation, logical processes, and a proper understanding of quantity
2. Utilize proportional reasoning to solve contextual problems and make conversions involving various units of measurement
3. Identify, interpret, and compare linear and exponential rates of growth to make predictions and informed decisions based on data and graphs
4. Differentiate between simple and compound interest and analyze the long-term effects of saving, investing, and borrowing
5. Describe, analyze, and interpret statistical information such as graphs, tables, and summarized data to draw appropriate conclusions when presented with actual statistical studies
6. Determine probabilities and expected values and use them to assess risk and make informed decisions
7. Analyze civic and/or societal issues and critique decisions using relevant mathematics.

MAT 152 Statistical Methods I

3 2 4

Prerequisites: Take One Set:

- Set 1: DMA-010, DMA-020, DMA-030, and DRE-098
 Set 2: DMA-010, DMA-020, DMA-030, and ENG-002
 Set 3: DMA-010, DMA-020, DMA-030, and BSP-4002
 Set 4: DMA-025, and DRE-098
 Set 5: DMA-025, and ENG-002
 Set 6: DMA-025, and BSP-4002
 Set 7: MAT-003 and DRE-098
 Set 8: MAT-003 and ENG-002
 Set 9: MAT-003 and BSP-4002
 Set 10: BSP-4003 and DRE-098
 Set 11: BSP-4003 and ENG-002
 Set 12: BSP-4003 and BSP-4002

Corequisites: Take 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 course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative). This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).*

Competencies

·Student Learning Outcomes

1. Organize, display, calculate, and interpret descriptive statistics
2. Apply basic rules of probability
3. Identify and apply appropriate probability distributions
4. Perform regression analysis
5. Analyze sample data to draw inferences about a population parameter
6. Communicate results through a variety of media.

MAT 171 Precalculus Algebra

3 2 4

Prerequisites: Take One Set:

- Set 1: DMA-010, DMA-020, DMA-030, DMA-040, DMA-050
 Set 2: DMA-010, DMA-020, DMA-030, DMA-045
 Set 3: DMA-025, DMA-045
 Set 4: DMA-025, DMA-040, DMA-050
 Set 5: MAT 121
 Set 6: MAT-003
 Set 7: BSP-4003

Corequisites: Take MAT-071

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 course has been approved for transfer under the CAA as a general education course in Mathematics. This course has been approved for transfer under the ICAA as a general education course in Mathematics.*

Competencies

·Student Learning Outcomes

1. Use analytical, graphical, and numerical representations to solve absolute value, radical, polynomial,

rational, exponential, and logarithmic equations with both real and complex solutions.

2. Use analytical, graphical, and numerical representations to solve absolute value, polynomial and rational inequalities with real solutions.
3. Use analytical, graphical, and numerical representations to analyze absolute value, radical, polynomial, rational, exponential and logarithmic functions with both real and complex zeros.
4. Use multiple methods to solve problems involving systems of equations and apply to decomposing partial fractions.
5. Construct the composition and inverse of functions.
6. Use polynomial, exponential and logarithmic functions to model various real world situations in order to analyze, draw conclusions, and make predictions.

MAT 172 Precalculus Trigonometry

3 2 4

Prerequisites: MAT 171

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 triangles, 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Competencies

Student Learning Outcomes

1. Use the unit circle and right triangle definitions to evaluate and graph trigonometric functions and their inverses, to derive trigonometric identities, and to simplify trigonometric expressions.
2. Use multiple methods to solve problems involving trigonometric equations, right triangles, and oblique triangles.
3. Demonstrate knowledge of vector definitions and perform vector operations.
4. Convert equations and graphs between rectangular and polar coordinate systems, and apply to complex numbers.
5. Use multiple representations to define, construct and analyze conic sections.
6. Create, graph, and analyze parametric equations.

MAT 271 Calculus I

3 2 4

Prerequisites: 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Competencies

Student Learning Outcomes

1. Apply the definition of limit to evaluate limits by multiple methods and use it to derive the definition and rules for differentiation and integration.
2. Use derivatives to analyze and graph algebraic and transcendental functions.
3. Select and apply appropriate models and differentiation techniques to solve problems involving algebraic

and transcendental functions; these problems will include but are not limited to applications involving optimization and related rates.

4. Apply the definition of indefinite integral to solve basic differential equations.

5. Apply the definition of definite integral to evaluate basic integrals.

6. Use the fundamental theorem of calculus to evaluate integrals involving algebraic and transcendental functions.

MAT 272 Calculus II

3 2 4

Prerequisites: MAT 271

Corequisites: None

This course is designed to develop advanced 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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Competencies

Student Learning Outcomes

1. Select and apply appropriate models and integration techniques to solve problems involving algebraic and transcendental functions; these problems will include but are not limited to applications involving volume, arc length, surface area, centroids, force and work.
2. Evaluate proper and improper integrals using various integration techniques.
3. Analyze the convergence and divergence of infinite sequences and series and find the Taylor and McLaurin representations for transcendental functions.
4. Use differentiation and integration to analyze the graphs of polar form equations and parametric form equations.
5. Solve separable and first-order linear differential equations.
6. Analyze and graph conic sections using calculus techniques.

MAT 273 Calculus III

3 2 4

Prerequisites: MAT 272

Corequisites: None

This course 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Competencies

Student Learning Outcomes

1. Perform operations with vectors in two and three dimensional space and apply to analytic geometry.
2. Differentiate and integrate vector-valued functions and apply calculus to motion problems in two and three dimensional space.
3. Determine the limits, derivatives, gradients, and integrals of multivariate functions.
4. Solve problems in multiple integration using rectangular, cylindrical, and spherical coordinate systems.
5. Select and apply appropriate models and techniques to define and evaluate line and surface integrals; these techniques will include but are not limited to Greens, Divergence, and Stoke's theorems.

6. Demonstrate proficiency in using CAS technology to analyze, solve and interpret the various applications.

MAT 280 Linear Algebra

2 2 3

Prerequisites: 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.

Competencies

Student Learning Outcomes

1. Use analytical and graphical representations to apply vector operations in multiple-dimensions.
2. Solve systems of linear equations using multiple manual and technology-based methods; these methods will include but are not limited to Gaussian and Gauss-Jordan.
3. Use eigenvalues, eigenvectors and diagonalization to solve problems in appropriate situations.
4. Use matrix operations and linear transformations to solve problems in appropriate situations.
5. Demonstrate knowledge of orthogonal projections and orthogonal complements of subspaces, and apply to appropriate situations.
6. Use the fundamental concept of a basis for a subspace to give a precise definition of dimensions and rank, and to solve problems in appropriate situations.
7. Demonstrate proficiency in using CAS technology to analyze, solve and interpret the various applications. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

MAT 285 Differential Equations

2 2 3

Prerequisites: 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.

Competencies

Student Learning Outcomes

1. Find general solutions to first-order, second-order, and higher-order homogeneous and non-homogeneous differential equations by manual and technology-based methods.
2. Identify and apply initial and boundary values to find particular solutions to first-order, second-order, and higher order homogeneous and non-homogeneous differential equations by manual and technology-based methods, and analyze and interpret the results.
3. Select and apply appropriate methods to solve differential equations; these methods will include, but are not limited to, undetermined coefficients, variation of parameters, eigenvalues and eigenvectors, Laplace and inverse Laplace transforms.
4. Select and apply series techniques to solve differential equations; these techniques will include but

are not limited to Taylor series.

5. Select and apply numerical analysis techniques to solve differential equations; these techniques will include but are not limited to Euler, Improved Euler, and Runge-Kutta.

6. Demonstrate proficiency in using CAS technology to analyze, solve and interpret the various applications.

College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

Mechanical

MEC 111 Machine Processes I

1 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 manufacture simple parts to specified tolerances.

MEC 112 Machine Processes II

2 3 3

Prerequisites: MEC 111

Corequisites: None

This course covers advanced use of milling machines and lathes. Emphasis is placed on safety and compound setup of milling machines and lathes for manufacture of projects with a specified fit. Upon completion, students should be able to demonstrate proper procedures for manufacture of assembled parts

MEC 130 Mechanisms

2 3 3

Prerequisites: None

Corequisites: None

This course introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices. Upon completion, students should be able to analyze, maintain, and troubleshoot the components of mechanical systems.

MEC 141 Intro Mfg Processes

2 2 3

Prerequisites: None

Corequisites: None

This course covers the properties and characteristics of manufacturing materials and the processes used to form them. Emphasis is placed on manufacturing materials, heat-treating processes, and manufacturing processes. Upon completion, students should be able to identify physical characteristics of materials and describe processes used to manufacture a part.

MEC 142 Physical Metallurgy

1 2 2

Prerequisites: None

Corequisites: None

This course covers the heat treating of metals. Emphasis is placed on the effects of hardening, tempering, and annealing on the structure and physical properties of metals. Upon completion, students should be able to heat treat materials.

MEC 161 Manufacturing Processes I

3 0 3

Prerequisites: None

Corequisites: None

This course provides the fundamental principles of value-added processing of materials into usable forms

for the customer. Topics include material properties and traditional and non-traditional manufacturing processes. Upon completion, students should be able to specify appropriate manufacturing processing for common engineering materials.

Competencies

Student Learning Outcomes

1. Distinguish various primary metal working processes.
2. Compare and contrast various welding processes.
3. Compare and contrast various material finishing processes.
4. Compare and contrast testing techniques.

Medical

MED 120 Survey of Med Terminology

2 0 2

Prerequisites: None

Corequisites: None

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 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. (*VLC)

MED 122 Medical Terminology II

3 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. (*VLC)

Marketing and Retailing

MKT 120 Principles of Marketing

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. (*VLC)

Competencies

Student Learning Outcomes

1. Define the role of marketing in business.
2. Explain the role of selling, customer relations and product management in marketing.
3. Describe marketing.
4. Define pricing and channel management strategies.

MKT 121 Retailing

3 0 3

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

3 0 3

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. *This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.*

MKT 123 Fundamentals of Selling

3 0 3

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. (*VLC)

Competencies

Student Learning Outcomes

1. Identify appropriate sales techniques for various selling situations.
2. Describe sales techniques.
3. Explain the necessity of selling skills in modern business environment.

MKT 220 Advertising and Sales Promotion

3 0 3

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. (*VLC)

MKT 223 Customer Service

3 0 3

Prerequisites: None

Corequisites: :

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 224 International Marketing

3 0 3

Prerequisites: None

Corequisites: None

This course covers the basic concepts of international marketing activity and theory. Topics include product promotion, placement, and pricing strategies in the international marketing environment. Upon completion, students should be able to demonstrate a basic understanding of the concepts covered.

MKT 225 Marketing Research

3 0 3

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. *This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.* (*VLC)

Competencies

Student Learning Outcomes

1. Design and conduct a marketing research project.
2. Interpret results of a marketing research project.
3. Apply marketing research as a tool in decision making.
4. Define procedures for developing, analyzing, and using data.

MKT 227 Marketing Applications

3 0 3

Prerequisites: None

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. *This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.*

Competencies

Student Learning Outcomes

1. Formulate marketing strategy.
2. Apply diverse marketing strategies case studies and small-group projects.
3. Define diverse marketing strategies.

MKT 230 Public Relations

3 0 3

Prerequisites: None

Corequisites: :

This course introduces public relations as it affects communications, strategic planning, and management of the organization. Topics include basic principles and functions of management that guide public relations activities as applied to businesses, services, institutions, and associations. Upon completion, students should be able to perform the communications, evaluation, planning, and research activities of the public relations professional.

MKT 232 Social Media Marketing

3 2 4

Prerequisites: None

Corequisites: :

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.

Competencies

Student Learning Outcomes

1. Integrate different social media techniques into a marketing plan.
2. Describe social media marketing strategies.
3. Create a social media marketing campaign, applying appropriate social media tools.
4. Create a plan to improve marketing efforts for businesses using social media.

Maintenance

MNT 110 Intro to Maint Procedures

1 3 2

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.

Competencies

Student Learning Outcomes

1. Identify and demonstrate safe practices and procedures with tools, materials and industry accepted test equipment covered in the course.
2. Identify and demonstrate use of hand tools.
3. Identify grades of bolts and fasteners and demonstrate proper tightening techniques
4. Describe the operation of and assemble mechanical power transmissions and systems.
5. Identify bearings, seals, gaskets, and packing material and demonstrate appropriate assembly techniques.
6. Perform preventative and predictive maintenance and mechanical troubleshooting.

Music

MUS 110 Music Appreciation

3 0 3

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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. (*VLC)*

MUS 112 Introduction to Jazz

3 0 3

Prerequisite: 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

MUS 210 History of Rock Music

3 0 3

Prerequisite: None

Corequisites: None

This course is a survey of Rock music from the early 1950's to the present. Emphasis is placed on musical groups, soloists, and styles related to the evolution of this idiom and on related historical and social events. Upon completion, students should be able to identify specific styles and to explain the influence of selected performers within their respective eras.

Nurse Aide

NAS 101 Nurse Aide I

3 4 3 6

Prerequisites: May be required to take transition/co-requisite classes based on RISE criteria

Corequisites: None

This course includes basic nursing skills required to provide safe, competent personal care for individuals. Emphasis is placed on person-centered care, the aging process, communication, safety/emergencies, infection prevention, legal and ethical issues, vital signs, height and weight measurements, elimination, nutrition, basic restorative care/rehabilitation, dementia, mental health and end-of-life care. Upon completion, students should be able to demonstrate knowledge and skills and be eligible to test for listing on the North Carolina Nurse Aide I Registry. *This is a certificate-level course.*

NAS 102 Nurse Aide II

3 2 6 6

Prerequisites: NAS 101

Corequisites: None

This course provides training in Nurse Aide II tasks. Emphasis is placed on the role of the Nurse Aide II, sterile technique and specific tasks such as urinary catheterization, wound care, respiratory procedures, ostomy care, peripheral IV assistive activities, and alternative feeding methods. Upon completion, students should be able to demonstrate knowledge and skills and safe performance of skills necessary to be eligible for listing on the North Carolina Nurse Aide II Registry. *This is a certificate-level course.*

NAS 103 Home Health Care Nurse Aide

4 4 0 6

Prerequisites: NAS 101

Corequisites: None

This course provides advanced training for the currently listed Nurse Aide I enhancing specific skills needed when working in the home care setting. Topics include person-centered care, nutrition, hydration, patient and personal safety, mental health, dementia, behavioral challenges, pain management, palliative care, and stress management. Upon completion, students are eligible for listing as a home care nurse aide with the North Carolina Nurse Aide Registry. *This is a certificate-level course.*

Networking Technology

NET 125 Networking Basics

1 4 3

Prerequisites: None

Corequisites: None

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Topics include introduction to the principles of IP addressing and fundamentals

of Ethernet concepts, media, and operations. Upon completion, students should be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

Network Operating Systems

NOS 110 Operating System Concepts

2 3 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.

NOS 120 Linux/UNIX Single User

2 2 3

Prerequisites: None

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 2 3

Prerequisites: None

Corequisites: None

This course introduces operating system concepts for single-user 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 single-user environment.

NOS 230 Windows Admin I

2 2 3

Prerequisites: None

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 101 Practical Nursing I

7 6 6 11

Prerequisites: Admission to the P.N.E. Program

Corequisites: BIO 168, ACA 115, PSY 150

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 assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be

able to provide safe nursing care across the lifespan incorporating the concepts identified in this course. *This is a diploma-level course.*

NUR 102 Practical Nursing II

7 0 9 10

Prerequisites: NUR 101, BIO 168, PSY 150

Corequisites: ENG 111, BIO 169

This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course. *This is a diploma-level course.*

NUR 103 Practical Nursing III

6 0 9 9

Prerequisites: NUR 102

Corequisites: None

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on biophysical and psychosocial concepts, professional behaviors, healthcare systems, health policy, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide safe, quality, and individualized entry level nursing care. *This is a diploma-level course.*

NUR 111 Intro to Health Concepts

4 6 6 8

Prerequisites: Admission to ADN Program

Corequisites: BIO 168, PSY 150, ACA 115

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

Corequisites: BIO 169

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: NUR 111, NUR 112, NUR 114, NUR 211

Corequisites: BIO 175, ENG 112

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 112, NUR 211

Corequisites: ENG 111, PSY 241

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 211 Health Care Concepts

3 0 6 5

Prerequisites: NUR 111, NUR 112

Corequisites: BIO 169

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 113, NUR 114, NUR 211

Corequisites: BIO 175, ENG 112

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: NUR 111, NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212

Corequisites: Humanities (3 hours)

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.

NUR 214 Nursing Transition Concepts

3 0 3 4

Prerequisites: Admission to Advanced Placement Track

Corequisites: PSY 241, BIO 169

*NUR 211, If student graduated from a non-concept-based curriculum

This course is designed to introduce concepts within the three domains of the individual, healthcare, and nursing as the LPN transitions to the ADN role. Emphasis is placed on the concepts within each domain including evidenced-based practice, quality improvement, communication, safety, interdisciplinary team, clinical decision-making, informatics, assessment, caring, and health-wellness-illness. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Nutrition

NUT 110 Nutrition

3 0 0 3

Prerequisites: None

Corequisites: None

This course covers basic principles of nutrition and their relationship to human health. Topics include meeting nutritional needs of healthy people, menu modification based on special dietary needs, food habits, and contemporary problems associated with nutrition. Upon completion, students should be able to apply basic nutritional concepts as they relate to health and well-being. (*VLC)

Operations Management

OMT 112 Materials Management

3 0 3

Prerequisites: None

Corequisites: None

This course covers the basic principles of materials management. Emphasis is placed on the planning, procurement, movement, and storage of materials. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques related to materials management. *This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.*

Competencies

Student Learning Outcomes

1. Identify appropriate strategies for procurement of materials.
2. Describe appropriate strategies for movement of materials.
3. Describe appropriate strategies for storage of materials.
4. Describe materials management planning.

OMT 143 Just-In-Time

2 0 2

Prerequisites: None

Corequisites: None

This course is a study of the quality philosophy and Just-in-Time techniques designed to improve the ability to economically respond to change. Topics include production to demand with perfect quality, no unnecessary lead times, elimination of waste, developing productivity of people, and the quest for continuous improvement. Upon completion, students should be able to demonstrate an understanding of Just-in-Time methods and be prepared for the APICS CPIM examination.

OMT 260 Issues in Operations Mgt.

3 0 3

Prerequisites: ISC 121, ISC 210, OMT 112, and ISC 130, ISC 131, ISC 132, or ISC 221

Corequisites: None

This course presents a variety of topics that highlight contemporary problems and issues related to operations management. Emphasis is placed on production

and operations planning, environmental health and safety, materials management, and quality systems. Upon completion, students should be able to demonstrate the ability to make decisions and resolve problems in an operations management environment.

This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.

Competencies

Student Learning Outcomes

1. Identify contemporary problems and issues related to operations management.
2. Apply production and operations planning principles.
3. Identify environmental health and safety issues in operations management.
4. Discuss issues related to materials management.

Office Systems Technology

OST 080 Keyboarding Literacy

1 2 2

Prerequisites: None

Corequisites: None

This course is designed to develop elementary keyboarding skills. Emphasis is placed on mastery of the keyboard. Upon completion, students should be able to demonstrate basic proficiency in keyboarding.

OST 122 Office Computations

2 2 3

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.

OST 131 Keyboarding

1 2 2

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 134 Text Entry & Formatting

2 2 3

Prerequisites: OST 131 or test out

Corequisites: None

This course is designed to provide the 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 mailable documents and key timed writings at speeds commensurate with employability. *This course is also available through the Virtual Learning Community (VLC).*

OST 135 Adv Text Entry & Format

3 2 4

Prerequisites: OST 131, OST 134

Corequisites: None

This course is designed to incorporate computer application skills in the generation of office documents. Emphasis is placed on the production of letters, manuscripts, business forms, tabulation, legal documents, and newsletters. Upon completion, students should be able to make independent decisions regarding planning, style, and method of presentation.

OST 136 Word Processing

2 2 3

Prerequisites: None

Corequisites: None

This course introduces 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. (*VLC)

OST 149 Medical Legal Issues

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the complex legal, moral, and ethical issues involved in providing health-care 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.

OST-153 Office Finance Solutions

2 2 3

Prerequisites: Take One: CIS-110, CIS-111 or OST-137

Corequisites: None

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

3 0 3

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. (*VLC)

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. (*VLC)

OST 236 Adv Word/Inform. Processing

2 2 3

Prerequisites: OST 135 or OST 136

Corequisites: None

This course develops proficiency in the utilization of advanced word/information processing functions. Topics include tables, graphics, macros, sorting, document assembly, merging, and newspaper and brochure columns. Upon completion, students should be able to produce a variety of complex business documents. *This course is also available through the Virtual Learning Community (VLC).*

OST 244 Med. Document Production

1 2 2

Prerequisites: OST 134

Corequisites: None

This course provides production-level skill development in processing medical documents. Emphasis is placed on producing mailable documents through the use of medical-related materials. Upon completion, students should be able to perform competently in preparing accurate, correctly formatted, and usable documents.

OST 247 Procedure Coding

2 2 3

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

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-249 Med Coding Certification Prep

2 3 3

Prerequisites: Take All: OST-247 and OST-248

Corequisites: None

This course provides instruction that will prepare students to sit for a national coding certification exam. Topics include diagnostic and procedural coding. Upon completion, students should be able to sit for various medical coding certification exams.

OST 250 Long-Term Care Coding

2 2 3

Prerequisites: MED 121 or OST 141

Corequisites: None

This course covers diagnostic coding as it applies to long-term care facilities and home care. Topics include diagnostic coding and reimbursement in long-term care facilities and home care. Upon completion, students should be able to properly code conditions for long-term care and home care services.

OST 286 Professional Development

3 0 3

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, health lifestyles, 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 Systems Management

2 2 3

Prerequisites: OST 164 and either OST 134 or OST 136

Corequisites: None

This course provides a capstone course for the office professional. Topics include administrative office procedures, imaging, communication techniques, er-

gonomics, and equipment utilization. Upon completion, students should be able to function proficiently in a changing office environment.

Process Control Instrumentation

PCI 264 Process Control with PLC's

3 3 4

Prerequisites: None

Corequisites: None

This course introduces automatic process control implemented with PLC technology. Topics include interfacing and controlling advanced control loops and devices using various PLC-based systems. Upon completion, students should be able to demonstrate an understanding of advanced applications of process control and instrumentation systems with PLC-based devices.

Physical Education

PED 110 Fit and Well for Life

1 2 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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 111 Physical Fitness

0 3 1

Prerequisites: None

Corequisites: None

This course provides an individualized approach to physical fitness utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 113 Aerobics I

0 3 1

Prerequisites: None

Corequisites: None

This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is placed on developing cardiovascular efficiency, strength, and flexibility and on safety precautions. Upon completion, students should be able to select and implement a rhythmic aerobic exercise program. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major 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 imple-

ment a personal weight training program. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major 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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 128 Golf-Beginning

0 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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 130 Tennis-Beginning

0 2 1

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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 139 Bowling-Beginning

0 2 1

Prerequisites: None

Corequisites: None

This course introduces the fundamentals of bowling. Emphasis is placed on ball selection, grips, stance and delivery along with rules and etiquette. Upon completion, students should be able to participate in recreational bowling. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 152 Swimming-Beginning

0 2 1

Prerequisites: None

Corequisites: None

This course is designed for non-swimmers and beginners. Emphasis is placed on developing confidence in the water, learning water safety, acquiring skills in floating, and learning elementary strokes. Upon completion, students should be able to demonstrate safety skills and be able to tread water, back float, and use the crawl stroke for 20 yards. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 155 Water Aerobics

0 3 1

Prerequisites: None

Corequisites: None

This course introduces rhythmic aerobic activities performed in water. Emphasis is placed on increasing cardiovascular fitness levels, muscular strength, muscular endurance, and flexibility. Upon comple-

tion, students should be able to participate in an individually-paced exercise program. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

PED 174 Wilderness Pursuits

0 2 1

Prerequisites: None

Corequisites: None

This course covers the skills necessary to prepare for and participate in a wilderness trip. Emphasis is placed on planning, preparing, and participating in a wilderness pack trip. Upon completion, students should be able to safely participate in overnight wilderness pack trips. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

PED 219 Disc Golf

0 2 1

Prerequisites: None

Corequisites: None

This course introduces the fundamentals of disc golf. Emphasis is placed on basic throwing techniques, putting, distance driving, scoring, and single and doubles play. Upon completion, students should be able to perform the skills required in playing situations. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

Philosophy

PHI 210 History of Philosophy

3 0 3

Prerequisites: ENG 111

Corequisites: None

This course introduces fundamental philosophical issues through an historical perspective. Emphasis is placed on such figures as Plato, Aristotle, Lao-Tzu, Confucius, Augustine, Aquinas, Descartes, Locke, Kant, Wollstonecraft, Nietzsche, and Sartre. Upon completion, students should be able to identify and distinguish among the key positions of the philosophers studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

PHI 215 Philosophical Issues

3 0 3

Prerequisites: 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.

Competencies

1. Engage in critical thinking.
 2. Identify, reconstruct, and evaluate philosophical arguments.
 3. Analyze key philosophical concepts within epistemology, metaphysics, and ethics.
 4. Demonstrate an understanding of major philosophical views, and how they relate to contemporary issues. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*
- Competencies
1. Engage in critical thinking about moral issues.
 2. Identify, reconstruct and evaluate ethical arguments.

3. Analyze key ethical concepts.
4. Demonstrate understanding of major views in moral philosophy and how they relate to contemporary ethical and social issues.

PHI 240 Introduction to Ethics
3 0 3

Prerequisites: 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 utilitarianism, rule-based ethics, existentialism, relativism versus objectivism, and egoism. Upon completion, students should be able to apply various ethical theories to individual moral issues such as euthanasia, abortion, crime and punishment, and justice. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. (*VLC)*

Competencies

1. Engage in critical thinking about moral issues.
2. Identify, reconstruct and evaluate ethical arguments.
3. Analyze key ethical concepts.
4. Demonstrate understanding of major views in moral philosophy and how they relate to contemporary ethical and social issues.

Photography

PHO 110 Fund of Photography
3 6 5

Prerequisites: None
Corequisites: None

This course covers the basic technical aspects of photography, including camera controls, light and optics, flash, exposure, and processing. Emphasis is placed on principles of camera design and the relationship between subject and photographic image, with hands-on experience. Upon completion, students should be able to consistently produce technically excellent images.

PHO 113 History of Photography
3 0 3

Prerequisites: None
Corequisites: None

This course introduces the history of photography from its inception through contemporary times. Emphasis is placed on technical and aesthetical developments in artistic and commercial photography. Upon completion, students should be able to identify significant photographers and procedures, trace the development of the medium, and discuss current trends in photography.

PHO 115 Basic Studio Lighting
2 6 4

Prerequisites: PHO 110
Corequisites: None

This course covers the basic principles of studio lighting. Topics include basic lighting techniques and application of lighting ratios to product illustration/portraiture using tungsten/electronic strobe sources, with emphasis on equipment maintenance and safety. Upon completion, students should be able to select and set up the best lights and lighting applications for a wide variety of photographic subjects.

PHO 120 Intermediate Photography
2 4 4

Prerequisites: PHO 110
Corequisites: None

This course expands the coverage of photographic materials and provides an opportunity to experiment. Emphasis is placed on additional techniques and processes, including solarization, multiple-imaging, infrared toning, and other non-traditional uses of photography. Upon completion, students should be able to demonstrate how the choice of technique enhances the photographic subject and influences content.

PHO 132 Small-Format Photography
2 6 4

Prerequisite: PHO 110

Corequisites: None

This course introduces small-format cameras and their application in location portraiture, industrial photography, photojournalism, and multimedia photography and portable lighting equipment and techniques. Topics include rapid camera operation, location photography, exposure techniques, portable flash, process modification, filtration, and simple multimedia production. Upon completion, students should be able to produce professional quality images under a variety of adverse shooting conditions using the equipment and techniques studied.

PHO 139 Intro to Digital Imaging
1 4 3

Prerequisites: None
Corequisites: None

This course introduces digital images by exploring the effect hardware and software have on the reproduction process. Topics include basic imaging tools and vocabulary, calibration, density, contrast, and color. Upon completion, students should be able to demonstrate a basic understanding of the digital imaging process and be able to capture and output images.

PHO 140 Digital Photo Imaging I
2 4 4

Prerequisites: PHO 110
Corequisites: None

This course introduces digital photo imaging exploring the use of hardware/software, image capture, input/output devices, ethics, and imaging aesthetics. Emphasis is placed on basic imaging tools and vocabulary of current digital imaging software, including selection tools, color correction, cloning, copy/paste, and filters. Upon completion, students should be able to capture images with a digital camera or scanner, manipulate and retouch the image, and select final image output.

PHO 150 Portfolio Development I
3 3 4

Prerequisites: PHO 120 or PHO 130
Corequisites: None

This course provides an opportunity to develop a thematically related portfolio of photographic images that are consistent in print quality. Emphasis is placed on subject/content development, choice of materials, and archival processing controls; organizing and sequencing images; editing; print finishing; and portfolio presentation. Upon completion, students should be able to edit and exhibit a consistent body of photographic prints in a portfolio presentation.

PHO 180 Creative Problem Solving
1 4 3

Prerequisites: PHO 110
Corequisites: None

This course encourages the development of innovative photographic solutions to instructor-assigned

tasks. Emphasis is placed on identifying components necessary to complete the task and applying creative solutions. Upon completion, students should be able to solve problems in a variety of photographic areas, combining media where needed to achieve the desired results.

PHO 216 Documentary Photography
2 4 4

Prerequisites: PHO 110
Corequisites: None

This course introduces the practical, historical, and contemporary applications of documentary photography. Emphasis is placed on understanding the various approaches to creating a photographic documentary and how a documentary project can affect society. Upon completion, students should be able to produce a documentary project on a topic of interest to them.

PHO 217 Photojournalism I
1 6 4

Prerequisites: PHO 110
Corequisites: None

This course covers logistics and techniques used in current professional newspaper photography. Topics include detailed study of spot and general news, sports, and feature photography along with basic newspaper layout, advanced photographic techniques, and legal issues. Upon completion, students should be able to demonstrate an understanding of basic aspects of news, sports, and feature photography.

PHO 220 Business of Photography
3 0 3

Prerequisite: None
Corequisites: None

This course covers the business practices of photography with emphasis on freelance photography. Topics include copyright, payment fees, client relations, licenses, insurance, assignments, stock sales, and usage rates. Upon completion, students should be able to demonstrate an understanding of the photographic business, including billing, clients, copyright protection, and obtaining assignments.

PHO 222 Video Production
2 2 3

Prerequisite: None
Corequisites: None

This course combines photography, light, movement, sound, music, and other elements to produce a video medium that can be informative, entertaining, and productive. Topics include video utilization, techniques and styles, pre-production scripting and planning, camera techniques, lighting, directing talent, and editing techniques. Upon completion, students should be able to create effective video productions, operate video camera equipment, and edit raw source tape to a final product.

PHO 224 Multimedia Production
2 3 3

Prerequisite: None
Corequisites: None

This course covers various aspects of computer based multimedia production. Topics include sound recording and editing techniques and software, multimedia software, control of image and continuity and pacing, script writing, copyright laws and ethics. Upon completion, students should be able to use computer hardware and software for multimedia production.

PHO 226 Portraiture
3 3 4Prerequisites: PHO 115
Corequisites: None

This course covers the techniques of contemporary studio and location portraiture. Topics include lighting techniques, lighting ratios, available light to multiple light setups, posing techniques, and styles of glamour, fashion, corporate, and public relations portraiture. Upon completion, students should be able to choose the appropriate lighting, accessories, and posing style to produce a successful portrait.

PHO 235 Commercial Photography
2 4 4Prerequisites: PHO 115
Corequisites: None

This course covers the techniques of advertising photography used in the print media. Emphasis is placed on the conception, lighting, and creation of photographic illustration used for food, fashion, and product photography. Upon completion, students should be able to produce advertising photographs for professional photographic illustration.

Physics

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by that college's placement test.

PHY 110 Conceptual Physics
3 0 3Prerequisites: None
Corequisites: None

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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

PHY 110A Conceptual Physics Lab
0 2 1Prerequisites: 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

PHY 131 Physics-Mechanics
3 2 4Prerequisites: MAT 121 or 171
Corequisites: None

This algebra/trigonometry-based course introduces fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, vectors, motion, forces, Newton's laws of motion, work, energy, power, momentum, and properties of matter. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

PHY 151 College Physics I
3 2 4Prerequisites: MAT 171
Corequisites: None

This course uses algebra- and 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

PHY 152 College Physics II
3 2 4Prerequisites: PHY 151
Corequisites: None

This course uses algebra- and 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

PHY 251 General Physics I
3 3 4Prerequisites: 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

PHY 252 General Physics II
3 3 4Prerequisites: 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. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

Plastics**PLA 110 Introduction to Plastics**
2 0 2Prerequisites: None
Corequisites: None

This course introduces the plastics processing industry, including thermoplastics and thermosets.

Emphasis is placed on the description, classification, and properties of common plastics and processes and current trends in the industry. Upon completion, students should be able to describe the differences between thermoplastics and thermosets and recognize the basics of the different plastic processes.

Plumbing**PLU 115 Basic Plumbing**
2 6 4Prerequisites: None
Corequisites: None

This course covers the basic installation and maintenance of plumbing systems and components. Topics include safe use of tools, implementation of standard practices, and installation/maintenance of piping, fittings, valves, appliances and fixtures used in plumbed systems. Upon completion, students should be able to install/maintain basic plumbing systems, components, appliances, and fixtures through appropriate use of plumbing tools and standard practices.

Political Science**POL 120 American Government**
3 0 3Prerequisites: None
Corequisites: None

This course is a study of the origins, development, structure, and functions of American national 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 formation. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

POL 130 State & Local Government
3 0 3Prerequisites: None
Corequisites: None

This course includes state and local political institutions and practices in the context of American federalism. Emphasis is placed on procedural and policy differences as well as political issues in state, regional, and local governments of North Carolina. Upon completion, students should be able to identify and discuss various problems associated with intergovernmental politics and their effect on the community and the individual. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

POL 210 Comparative Government
3 0 3Prerequisites: None
Corequisites: None

This course provides a cross-national perspective on the government and politics of contemporary nations such as Great Britain, France, Germany, and Russia. Topics include each country's historical uniqueness, key institutions, attitudes and ideologies, patterns of interaction, and current political problems. Upon completion, students should be able to identify and compare various nations' governmental structures, processes, ideologies, and capacity to resolve major problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Psychology

PSY 118 Interpersonal Psychology

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the basic principles of psychology as they relate to personal and professional development. Emphasis is placed on personality traits, communication/leadership styles, effective problem solving, and cultural diversity as they apply to personal and work environments. Upon completion, students should be able to demonstrate an understanding of these principles of psychology as they apply to personal and professional development.

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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. (*VLC)*

PSY 239 Psychology of Personality

3 0 3

Prerequisites: PSY 150

Corequisites: None

This course covers major personality theories and personality research methods. Topics include psychoanalytic, behavioristic, social learning, cognitive, humanistic, and trait theories including supporting research. Upon completion, students should be able to compare and contrast traditional and contemporary approaches to the understanding of individual differences in human behavior. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

PSY 241 Developmental Psych

3 0 3

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. (*VLC)*

PSY 244 Child Development I

3 0 3

Prerequisites: None

Corequisites: None

This course provides an introduction to the study of child development and examines the growth and development of children from conception through early childhood. Topics include historical and theoretical perspectives, terminology, research and observation techniques as well as physical, cognitive, and psychosocial growth and change. Upon completion, students should be able to demonstrate an understanding of the early stages of child development.

PSY 245 Child Development II

3 0 3

Prerequisites: None

Corequisites: None

This course examines the growth and development of children during early and middle childhood. Emphasis is placed on factors influencing physical, cognitive, and psychosocial growth and change. Upon completion, students should be able to demonstrate an understanding of early and middle child development.

PSY 281 Abnormal Psychology

3 0 3

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

Reading

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by that college's placement test.

RED 090 Improved College Reading

3 2 4

Prerequisites: RED 080 or ENG 085

Corequisites: None

This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing author's purpose, tone, and style; and drawing conclusions and responding to written material. Upon completion, students should be able to comprehend and analyze college-level reading material. *This course satisfies the developmental reading prerequisite for ENG 111 or ENG 111A.*

RED 091 Fast Track Imprv Coll Rdg

1 0 1

Prerequisites: RED 080 or ENG 085

Corequisites: None

This course provides an intensive review of selected RED 090-level reading strategies. Topics include the following reading strategies at the RED 090 level: critical thinking, major question types, main idea, patterns of organization, vocabulary, and inference. Upon completion, students should be able to apply selected RED 090 reading strategies to various texts.

Refrigeration

REF 116 Commercial Systems I

2 6 4

Prerequisites: AHR 115

Corequisites: None

This course introduces and compares various commercial refrigeration systems. Topics include service, repair, and diagnostic procedures for commercial sys-

tems and components, as well as evacuation, charging, startup, and evaluation. Upon completion, students should be able to use appropriate tools, instruments, and procedures to service and install basic refrigeration systems or components.

REF 117 Refrigeration Controls

2 6 4

Prerequisites: AHR 111 or ELC 111

Corequisites: None

This course covers the design, operation, function, and schematics of basic control systems used in the refrigeration industry. Topics include proper control application, selection, and use of test instruments; simple control wiring; and the use of schematics as a troubleshooting tool. Upon completion, students should be able to identify, diagnose, and repair electrical and mechanical malfunctioning components.

REF 123 Electrical Devices

2 6 4

Prerequisites: AHR 111 or ELC 111

Corequisites: None

This course introduces the electrical and electronic components and test instruments commonly found in commercial refrigeration. Emphasis is placed on troubleshooting electrical and electronic devices, including motors, starting devices, switches, transformers, programmable controls, defrost controls, thermostats, and wiring systems. Upon completion, students should be able to use test equipment appropriately and safely to troubleshoot, test, and repair electrical devices.

Religion

REL 110 World Religions

3 0 3

Prerequisites: None

Corequisites: None

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

REL 211 Intro to Old Testament

3 0 3

Prerequisites: None

Corequisites: None

This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

REL 212 Intro to New Testament

3 0 3

Prerequisites: None

Corequisites: None

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural

context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

Information Systems Security

SEC 110 Security Concepts

2 2 3

Prerequisites: None

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.

SEC 160 Security Administration I

2 2 3

Prerequisites: None

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.

SEC 260 Security Administration II

2 2 3

Prerequisites: None

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.

Sociology

SOC 210 Introduction to Sociology

3 0 3

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 course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. (*VLC)*

SOC 213 Sociology of the Family

3 0 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 lifestyles, 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. (*VLC)*

SOC 220 Social Problems

3 0 3

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 to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

SOC 225 Social Diversity

3 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. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

SOC 242 Sociology of Deviance

3 0 3

Prerequisites: None

Corequisites: None

This course provides an overview of deviant behavior and the processes involved in its definition, causation, prevention, control, and treatment. Topics include theories of causation, social control, delinquency, victimization, criminality, the criminal justice system, punishment, rehabilitation, and restitution. Upon completion, students should be able to identify and analyze issues surrounding the nature and development of social responses to deviance. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

Spanish

SPA 110 Introduction to Spanish

2 0 2

Prerequisites: None

Corequisites: None

This course provides an introduction to understanding, speaking, reading, and writing Spanish. Emphasis is placed on pronunciation, parts of speech, communicative phrases, culture, and skills for language acquisition. Upon completion, students should be able to identify and apply basic grammar concepts, display cultural awareness, and communicate in simple phrases in Spanish.

SPA 111 Elementary Spanish I

3 0 3

Prerequisites: None

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

SPA 112 Elementary Spanish II

3 0 3

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

SPA 181 Spanish Lab 1

0 2 1

Prerequisites: None

Corequisites: None

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

SPA 182 Spanish Lab 2

0 2 1

Prerequisites: Take SPA-111

Corequisites: None

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

SPA 211 Intermediate Spanish I

3 0 3

Prerequisites: 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

SPA 212 Intermediate Spanish II

3 0 3

Prerequisites: 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 and ICAA as a general education course in Humanities/Fine Arts.*

SPA 281 Spanish Lab 3

0 2 1

Prerequisites: Take SPA 182

Corequisites: None

This course provides an opportunity to enhance the 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 through the use of various supplementary learning media and materials. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

SPA 282 Spanish Lab 4

0 2 1

Prerequisites: Take SPA 281

Corequisites: None

This course provides an opportunity to enhance the review and expansion of the essential skills of the Spanish language. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts through the use of various supplementary learning media and materials. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. *College Transfer: This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

Sustainable Technologies

SST 140 Green Bldg & Design Concepts

3 0 3

Prerequisite: 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.

Competencies

Student Learning Outcomes

1. Demonstrate an understanding of the concepts of high performance green buildings and sustainability.
2. Identify current green building rating systems (i.e. LEED, NAHB).
3. Identify the energy efficiency methods that should be considered in a building design and/or construction project.

4. Select appropriate "green" materials for a building project.

5. Identify Indoor Environmental Quality factors to be considered in a construction project.

6. Identify water management strategies in a construction project.

Transportation

TRN 111 Chassis Maint./Light Repair

2 6 4

Prerequisite: None

Corequisites: None

This course covers maintenance and light repair of transportation suspension, steering, and brake systems. Topics include general servicing and inspection procedures of steering and suspension systems, wheels and tires, and drum and disc brakes including hydraulic and power-assist units. Upon completion, students should be able to perform maintenance and light repair of transportation suspension, steering, and brake systems.

TRN 112 Powertrain Maint./Light Repair

2 6 4

Prerequisite: None

Corequisites: None

This course covers maintenance and light repair of transportation engines, automatic and manual transmission/transaxles, engine performance systems, and HVAC systems. Topics include general servicing and inspection procedures of engines, engine lubrication and cooling systems, automatic and manual transmission/transaxles, HVAC components, and fuel, air induction, and exhaust systems. Upon completion, students should be able to perform maintenance and light repair of transportation engines, automatic and manual transmission/transaxles, engine performance systems, and HVAC systems.

TRN 120 Basic Transportation Electricity

4 3 5

Prerequisite: 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.

Competencies

Student Learning Outcomes

1. Demonstrate work place safety related to transportation electrical systems.
2. Interpret and apply wiring diagram information on a transportation vehicle electrical system.
3. Demonstrate the proper use of electrical diagnostic test equipment.
4. Use Ohm's law to calculate the value of any of the following given the values of the remaining variables:
* Voltage (V)
* Resistance (R)
* Amperage (A)
5. Given a transportation vehicle with a fault in the battery, starting, and charging system, students will be able to perform successful diagnosis and repairs.
6. Demonstrate the ability to obtain appropriate service information on electrical circuit construction.

TRN 140 Transportation Climate Control

1 2 2

Prerequisite: None

Corequisites: None

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.

Competencies

Student Learning Outcomes

1. In a lab setting, demonstrate work place safety per OSHA and EPA guidelines that apply to relevant climate control systems found on transportation vehicles and equipment.
2. Given a transportation vehicle or related equipment with a fault to the climate control system, diagnose and repair the climate control system using the recommended lab equipment as outlined by the related service information.
3. Using the recommended equipment as outlined by the EPA, identify and perform the proper recovery and recycling procedures for any refrigerant in a transportation vehicle or related equipment.
4. Describe the operation of the heating, ventilation and air condition systems.
5. Describe the use of climate control testing equipment to aid diagnosis of the systems.
6. Describe the use of appropriate service information and capacity charts.
7. Describe the EPA regulations that govern the proper use of refrigerants in a transportation vehicle or related equipment.

TRN 140A Transp Climate Control Lab

1 2 2

Prerequisite: 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.

Competencies

Student Learning Outcomes

1. Given a transportation vehicle or related equipment with a fault in the A/C system, diagnose and repair the system using the recommended lab equipment and service information.
2. Utilize proper equipment to identify a given A/C refrigerant type and the purity of the A/C refrigerant for the transportation industry.
3. Given a transportation vehicle or equipment with an A/C system, determine the recommended refrigerant oil and capacity levels as prescribed from related service information.
4. Given a transportation vehicle or equipment with an A/C system, use the recommended equipment to properly reclaim, recycle, evacuate and recharge the entire refrigerant system.
5. Given a Heating Ventilation and Air Conditioning (HVAC) system, properly drain, flush and refill the entire anti-freeze coolant system.
6. Given a Heating Ventilation and Air Conditioning (HVAC) system, evaluate the anti-freeze coolant condition and perform a systems test as recommended

by service information for a transportation vehicle or equipment.

7. Diagnose and repair a transportation vehicle or equipment with a fault in a protection device for the given A/C system.

8. Given an A/C system, remove and inspect system components and seals for damage which may cause the system to leak refrigerant.

9. Given a faulty climate control system, diagnose temperature control problems.

TRN 170 PC Skills for Transp 1 2 2

Prerequisite: None

Corequisites: None

This course introduces students to personal computer literacy and Internet literacy with an emphasis on the transportation service industry. Topics include service information systems, management systems, computer-based systems, and PC-based diagnostic equipment. Upon completion, students should be able to access information pertaining to transportation technology and perform word processing.

Competencies

- 1. Given a transportation vehicle or equipment, identify it and locate relevant service information from one or more industry-standard databases.
- 2. Given a transportation vehicle or equipment, analyze and diagnose transportation on board diagnostic management systems using handheld and/or PC based diagnostic equipment.
- 3. Describe and perform basic PC skills used by transportation technicians.
- 4. Demonstrate the proper use of application software such as MS Word.

TRN 180 Basic Welding for Transp 1 4 3

Prerequisite: None

Corequisites: None

This course covers the terms and procedures for welding various metals used in the transportation industry with an emphasis on personal safety and environmental health. Topics include safety and precautionary measures, setup/operation of MIG equipment, metal identification methods, types of welds/joints, techniques, inspection methods, cutting processes and other related issues. Upon completion, students should be able to demonstrate a basic knowledge of welding operations and safety procedures according to industry standard

Competencies

Student Learning Outcomes

- 1. Describe and list the proper fundamentals, processes and equipment, materials and metallurgy associated with welding of similar and dissimilar metals in transportation systems and equipment.
- 2. Identify and describe safety and health practices associated with the welding of similar and dissimilar metals in transportation systems and equipment.
- 3. In a lab setting, demonstrate the ability to successfully weld similar and dissimilar metals in transportation systems and equipment.
- 4. Select and list the proper inspection methods associated with the welding of similar and dissimilar metals in transportation systems and equipment.
- 5. In a lab setting, demonstrate proper setup and operational procedures associated with the welding of similar and dissimilar metals in transportation systems and equipment.
- 6. Describe and list the cutting techniques used with the various tools and methods associated with transportation systems and equipment.

Web Technologies

WEB 110 Internet/Web Fundamentals 2 2 3

Prerequisites: None

Corequisites: None

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded website created with mark-up language, and effectively use and understand the function of search engines.

WEB 111 Intro to Web Graphics 2 2 3

Prerequisites: 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.

WEB 115 Web Markup and Scripting 2 3 3

Prerequisites: 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.

WEB 120 Intro Internet Multimedia 2 2 3

Prerequisites: None

Corequisites: None

This is the first of two courses covering the creation of internet multimedia. Topics include internet multimedia file types, file type conversion, acquisition of digital audio/video, streaming audio/video and graphics animation plug-in programs and other related topics. Upon completion, students should be able to create internet multimedia presentations utilizing a variety of methods and applications.

WEB 140 Web Development Tools 2 3 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 151 Mobile Application Development 2 3 3

Prerequisites: None

Corequisites: None

This course introduces students to programming technologies, design and development related to mobile applications. Topics include accessing device

capabilities, industry standards, operating systems, and programming for mobile applications using an OS Software Development Kit (SDK). Upon completion, students should be able to create basic applications for mobile devices.

WEB 179 JAVA Web Programming 2 3 3

Prerequisite: None

Corequisites: None

This course introduces the development of dynamic, database-driven web applications using the JAVA programming languages. Topics include Object Oriented Programming JAVA Server Pages, servlets, database interactions, and form handling. Upon completion, students should be able to create and modify JAVA-based internet applications.

WEB 182 PHP Programming 2 3 3

Prerequisite: None

Corequisites: None

This course introduces students to the server-side, HTML-embedded 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

Prerequisites: None

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. (*VLC)

WEB 214 Social Media 2 3 3

Prerequisites: None

Corequisites: None

This course introduces students to social media for organizations. Topics include social media, marketing strategy, brand presence, blogging, social media analytics and technical writing. Upon completion, students should be able to utilize popular social media platforms as part of a marketing strategy, and work with social media analytics tools.

WEB 225 Content Management Sys 2 2 3

Prerequisite: None

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 230 Implementing Web Serv 2 2 3

Prerequisites: NET 110 or NET 125

Corequisites: None

This course covers website and web server architecture. Topics include installation, configuration, administration, and security of web servers, services and sites. Upon completion, students should be able to effectively manage the web services deployment lifecycle according to industry standards. (*VLC)

WEB 250 Database Driven Websites

Prerequisites: None
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

Prerequisites: None
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 287 Web E-Portfolio

Prerequisites: None
Corequisites: None

This course covers the creation and organization of a web-based e-portfolio that includes a resume, references, and comprehensive academic and work samples. Emphasis is placed on creating an e-portfolio with solid design and demonstrable content, the production of a resume and self-promotional materials, and interview techniques. Upon completion, students should be able to present their own domain with included professional e-portfolio elements of resume, sample work, and related self-promotional materials.

Welding

WLD 110 Cutting Processes

Prerequisite: None
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 plasma-arc cut metals of varying thickness.

Competencies

Student Learning Outcomes

1. Identify the parts and functions of an oxy-acetylene cutting torch.
2. Identify the parts and functions of various cutting equipment.
3. List the safety practices of using oxy-fuel, plasma-arc, and other cutting equipment.
4. Set-up and adjust cutting equipment.
5. Use an oxy-acetylene outfit, plasma cutting equipment, and other equipment to: a. Cut a straight

marked line on various thickness steel plate. b. Cut various shapes out of carbon steel plate. c. Cut carbon steel plate to a bevel and pipe.

WLD 112 Basic Welding Processes

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. Students will be given the opportunity to construct metal sculpture, or jewelry and other art metal objects using basic welding processes.

WLD 115 SMAW (Stick) Plate

Prerequisite: 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.

Competencies

Student Learning Outcomes

1. Demonstrate SMAW electrode classification in compliance with AWS codes.
2. Perform a groove weld according to AWS D1.1.
3. Demonstrate safe and proper SMAW equipment setup, operation, and shut-down practices in accordance to manufacturer's recommendations.

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

Prerequisite: 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.

Competencies

Student Learning Outcomes

1. Demonstrate the use of GMAW electrode classification in compliance with AWS code for the selection of electrodes.
2. Demonstrate the use of FCAW electrode classification in compliance with AWS code for the selection of electrodes.
3. Perform a Fillet weld in accordance with AWS code.
4. Perform a groove weld in accordance with AWS code.
5. Demonstrate safe and proper GMAW equipment setup, operation, and shut-down practices in accordance to manufacturer's recommendations.

WLD 131 GTAW (TIG) Plate

Prerequisite: 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.

Competencies

Student Learning Outcomes

1. Demonstrate the use of GTAW electrode classification in compliance with AWS for the selection of electrodes.
2. Perform a groove weld in accordance with AWS code.
3. Perform a Fillet weld in accordance with AWS code.
4. Demonstrate safe equipment setup, operation, and shut-down practices according to manufacturer's recommendations.

WLD 141 Symbols & Specifications

Prerequisite: 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.

Competencies

Student Learning Outcomes

1. Identify and read welding symbols.
2. Identify and explain various lines, notes, and specifications on a blueprint.
3. Identify the different types of lines on a blueprint.
4. Interpret destructive testing symbols and their methods.
5. Interpret non-destructive testing symbols and their methods.
6. Develop a working sketch.
7. Create a bill of materials from a blueprint.

WLD 143 Welding Metallurgy

Prerequisites: None
Corequisites: None

This course introduces the concepts of welding metallurgy. Emphasis is placed on basic metallurgy, effects of welding on various metals, and metal classification and identification. Upon completion, students should be able to understand basic metallurgy, materials designation, and classification systems used in welding.

WLD 151 Fabrication I

Prerequisites: None
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 261 Certification Practices

Prerequisites: WLD 115, WLD 121, and WLD 131
Corequisites: None

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