

2019-2020 Catalog



Mitchell
COMMUNITY COLLEGE

Equal Opportunity College

The College is committed to equal employment and admission opportunities; therefore, it prohibits discrimination on the basis of race, color, religion, gender, national origin, age, disability, sexual orientation and genetic information consistent with the applicable state and federal laws. This policy governs all aspects of employment, including, but not limited to: job selection, job assignment, compensation, performance evaluations, discipline, demotion, termination, benefits and training.

This policy also governs the admission of students and all campus programs, services and activities.

The College does not discriminate on the basis of gender in admission to or employment in its education programs or activities. If at any time an employee feels that he/she has been subjected to or has observed discrimination, the employee must report such conduct to one of the College's Title IX Coordinators so that an investigation can be initiated and appropriate action be taken. The confidentiality of all such inquiries and reports will be respected to the fullest extent possible.

Employees can raise concerns and make reports without fear of reprisal. Employees will not be retaliated against in any manner for reporting perceived discrimination pursuant to this policy. Anyone found to be engaging in any type of unlawful discrimination will be subject to disciplinary action, up to and including termination of employment.

Equal Access

The College is committed to the policy that all persons shall have equal access to its programs, facilities and employment. The College supports an environment that fosters respect and values all people. It promotes diversity with fair and impartial treatment of all students and employees in all terms and conditions of admissions and employment.

Colegio universitario de igualdad de oportunidades

El Colegio Universitario está comprometido con la igualdad de oportunidades de empleo y admisión; por lo tanto, prohíbe la discriminación por motivos de raza, color, religión, género, origen nacional, edad, discapacidad, orientación sexual e información genética de conformidad con las leyes estatales y federales aplicables. Esta política rige todos los aspectos del empleo, incluidos, entre otros: selección de trabajo, asignación de trabajo, compensación, evaluaciones de desempeño, disciplina, degradación, terminación, beneficios y capacitación.

Esta política también rige la admisión de estudiantes y todos los programas, servicios y actividades del campus.

El Colegio Universitario no discrimina por motivos de género en la admisión o empleo en sus programas o actividades educativas. Si en algún momento un empleado siente que ha sido sometido o ha observado discriminación, el empleado debe informar dicha conducta a uno de los coordinadores del Título IX del Colegio Universitario para que se pueda iniciar una investigación y se tomen las medidas apropiadas. La confidencialidad de todas estas consultas e informes se respetará en la mayor medida posible.

Los empleados pueden plantear inquietudes y hacer informes sin temor a represalias. No se tomarán represalias contra los empleados de ninguna manera por informar la discriminación percibida de conformidad con esta política. Cualquier persona que se encuentre involucrada en cualquier tipo de discriminación ilegal estará sujeta a medidas disciplinarias, que pueden incluir el despido.

Igualdad de acceso

El Colegio Universitario está comprometido con la política de que todas las personas tendrán igual acceso a sus programas, instalaciones y empleo. El Colegio Universitario apoya un ambiente que fomenta el respeto y valora a todas las personas. Promueve la diversidad con un trato justo e imparcial de todos los estudiantes y empleados en todos los términos y condiciones de admisión y empleo.



Mitchell
COMMUNITY COLLEGE

2019-2020 Catalog

Statesville

Statesville Campus

500 W. Broad St., Statesville, NC 28677
(704) 878-3200 phone
(704) 878-0872 fax

Continuing Education Center

701 W. Front St., Statesville, NC 28677
(704) 878-3220 phone
(704) 878-4271 fax

Cosmetic Arts Center

3223 Taylorsville Hwy., Statesville, NC 28625
(704) 878-4374 phone

Drake Street Center

335 Drake St., Statesville, NC 28677

Technology and Workforce Development Center

701 W. Front St., Statesville, NC 28677
(704) 878-3224 phone
(704) 878-3245 fax

Mooresville

Mooresville Campus

219 N. Academy St., Mooresville, NC 28115
(704) 663-1923 phone
(704) 663-5239 fax

mitchellcc.edu |  | 

This catalog is a reference guide on policies and programs offered by Mitchell Community College. Statements in this publication are subject to change at any time without notice. This catalog should not be considered a contract between Mitchell Community College and any prospective student. Students should inquire about any updates or revisions.

This catalog was revised on April 24, 2020.

Table of Contents

Academic Calendar	7
General Information.....	10
Admissions	14
Tuition and Fees.....	24
Financial Aid.....	26
Veterans Affairs.....	32
Academic Policies.....	35
Support Services	43
Students Rights and Responsibilities	46
Corporate and Continuing Education.....	48
Programs of Study	52
Curriculum Course Descriptions	166
Administration, Faculty and Staff.....	270

Greetings

Dear Potential Students and Visitors,

It's truly my privilege to welcome you to Mitchell Community College. This institution has been a part of the higher education landscape in Iredell County for over 160 years. Through these years the College has adapted and recreated itself over and over to remain relevant with the programs that we offer. That tradition of evolving and changing continues today.



Mitchell's educational philosophy is one that is based on contextual teaching and learning. Our faculty work to create a connection between real world experiences and what you'll learn in the classroom.

We are a comprehensive community college that offers a wide range of courses, from music and fine arts programs to health sciences, advanced manufacturing and public safety training—just to name a few. Our college transfer program aligns with the University of North Carolina System and private colleges across the state, and our technical programs are equally aligned with business and industry needs.

With campus locations in downtown Statesville and Mooresville, the College is able to allow access to inviting and stimulating learning environments for both personal and professional development.

We are here to make sure that our students are successful. Everything that we do as an institution is done so to make sure students are Prepared to Excel.

I wish you the very best in your educational journey here.

Sincerely,

A handwritten signature in blue ink that reads "James T. Brewer". The signature is fluid and cursive, with a long horizontal flourish at the end.

James T. Brewer, Ed.D.
President

Directory

If you have any questions after reviewing this publication, please look below to find the proper office to contact.

Admissions–Mooreville.....	(704) 978-5415
Admissions–Statesville	(704) 978-5493
Advancement Office	(704) 878-4321
Alumni Services	(704) 878-4321
Basic Skills	(704) 878-3232
Bookstore	(704) 878-3275
Cashier.....	(704) 878-4270
College & Eason Student Services Reception.....	(704) 878-3200
Continuing Education.....	(704) 878-3220
Cooperative Education and Student Job Placement.....	(704) 878-4263
Curriculum Transcripts/Grading	(704) 878-3243
Disability Services	(704) 878-3364
Distance Learning	(704) 978-1304
Equal Employment Officer.....	(704) 878-4341
Financial Aid.....	(704) 978-5435
Financial Services	(704) 878-4396
General Information/Switchboard.....	(704) 878-3200
Library Services.....	(704) 878-3271
MIND Center.....	(704) 978-3116
Placement Testing.....	(704) 878-3267
President’s Office.....	(704) 878-3205
Security	(704) 878-4367
Student Government Association.....	(704) 978-5426
Veteran Services	(704) 878-3295
Vice President for Accounting/CFO.....	(704) 878-3212
Vice President for Advancement.....	(704) 878-4321
Vice President for Instruction and Chief Academic Officer	(704) 878-3264
Vice President for Student Services.....	(704) 878-3281
Vice President for Workforce Development and Continuing Education.....	(704) 878-3225
Work-Based Learning	(704) 878-4263

Address correspondence to any office in care of:

Mitchell Community College

500 W. Broad St.
Statesville, NC 28677

mitchellcc.edu



Academic Calendar

Fall Semester 2019

Aug. 1 (TH)	Ten-month faculty return
Aug. 17 (SA)	Orientation Day <i>*date subject to change*</i>
Aug. 19 (M)	Fall classes for 16-week, first 8-week, and first 4-week sessions begin
Aug. 19-21 (M-W)	Drop/Add
Aug. 19 (M)	Last day to receive 75% refund for first 4-week session
Aug. 22 (TH)	Last day to receive 75% refund for first 8-week session
Aug. 28 (W)	Last day to receive 75% refund for 16-week session
Sept. 2 (M)	Labor Day (College Closed)
Sept. 5 (TH)	Last day to withdraw from first 4-week session to ensure a grade of "W"
Sept. 12 (TH)	First 4-week session ends
Sept. 16 (M)	12-week and second 4-week sessions begin
Sept. 16 (M)	Last day to receive 75% refund for second 4-week session
Sept. 23 (M)	Last day to receive 75% refund for 12-week session
Sept. 27 (F)	Last day to withdraw from first 8-week session in order to ensure a grade of "W"
Oct. 3 (TH)	Last day to withdraw from second 4-week session in order to ensure a grade of "W"
Oct. 10 (TH)	Second 4-week session ends
Oct. 11 (F)	First 8-week session ends
Oct. 14-15 (M-T)	Fall break (No Classes/College Open)
Oct. 16 (W)	Second 8-week and third 4-week sessions begin
Oct. 16 (W)	Last day to receive 75% refund for third 4-week session
Oct. 21 (M)	Last day to receive 75% refund for second 8-week session
Nov. 5 (T)	Last day to withdraw from third 4-week session in order to ensure a grade of "W"
Nov. 12 (T)	Third 4-week session ends
Nov. 13 (W)	Last day to withdraw from 16-week session in order to ensure a grade of "W"
Nov. 14 (TH)	Fourth 4-week session begins
Nov. 14 (TH)	Last day to receive 75% refund for fourth 4-week session
Nov. 19 (T)	Last day to withdraw from 12-week session in order to ensure a grade of "W"
Nov. 26 (T)	Last day to withdraw from second 8-week session in order to ensure a grade of "W"
Nov. 27 (W)	Thanksgiving Holiday (No Classes/College Open)
Nov. 28-29 (TH-F)	Thanksgiving Holiday (College Closed)
Dec. 9 (M)	Last day to withdraw from fourth 4-week session in order to ensure a grade of "W"
Dec. 9 (M)	Last day of classes for 16-week session
Dec. 10-16 (T-M)	Final Exams for 16-week session
Dec. 13 (F)	12-week and second 8-week sessions end
Dec. 16 (M)	16-week and fourth 4-week sessions end
Dec. 17 (T)	All grades due by 3 p.m.
Dec. 24-31 (T-T)	Winter Break (College Closed)

Revised April 24, 2020

Please Note: Financial Aid Recipients who totally withdraw from all classes prior to the 60% point of each course may be responsible for the repayment of Pell Grant, FSEOG and/or State funds.

Spring Semester 2020

Jan. 1 (W)	New Year's Holiday (College Closed)
Jan. 2 (TH)	College reopens/spring registration resumes
Jan. 10 (F)	Orientation Day <i>*date subject to change*</i>
Jan. 13 (M)	16-week, first 12-week, first 8-week, and first 4-week sessions begin
Jan. 13 (M)	Last day to receive 75% refund for first 4-week session
Jan. 13-15 (M-W)	Drop/Add
Jan. 16 (TH)	Last day to receive 75% refund for first 8-week session
Jan. 20 (M)	Martin Luther King, Jr. Holiday (College Closed)
Jan. 21 (T)	Last day to receive 75% refund for first 12-week session
Jan. 23 (TH)	Last day to receive 75% refund for 16-week session
Jan. 30 (TH)	Last day to withdraw from first 4-week session to ensure a grade of "W"
Feb. 6 (TH)	First 4-week session ends
Feb. 10 (M)	Second 12-week and second 4-week sessions begin
Feb. 10 (M)	Last day to receive 75% refund for second 4-week session
Feb. 17 (M)	Last day to receive 75% refund for second 12-week session
Feb. 24 (M)	Last day to withdraw from first 8-week session to ensure a grade of "W"
Feb. 27 (TH)	Last day to withdraw from second 4-week session to ensure a grade of "W"
Mar. 5 (TH)	Second 4-week session ends
Mar. 6 (F)	First 8-week session ends
Mar. 9-13 (M-F)	Spring Break (No Classes/College Open)
Mar. 16-20 (M-F)	Emergency Days (Treated Same as Inclement Weather Days)
Mar. 23 (M)	Second 8-week and third 4-week sessions begin
Mar. 23 (M)	Last day to receive 75% refund for third 4-week session
Mar. 30 (M)	Last day to withdraw from first 12-week session to ensure a grade of "W"
Mar. 27 (F)	Last day to receive 75% refund for second 8-week session
Apr. 9 (TH)	Last day to withdraw from third 4-week session to ensure a grade of "W"
Apr. 13 (M)	Last day to withdraw for first 12-week session to ensure a grade of "WE" <i>(Withdrawals must be submitted to Record's Office by 3 p.m. on this day)</i>
Apr. 13 (M)	First 12-week session ends
Apr. 14 (T)	Grades due for first 12-week session
Apr. 16 (TH)	Last day to withdraw for third 4-week session to ensure a grade of "WE" <i>(Withdrawals must be submitted to Record's Office by 3 p.m. on this day)</i>
Apr. 16 (TH)	Third 4-week session ends
Apr. 17 (F)	Grades due for third 4-week session
Apr. 20 (M)	Fourth 4-week session begins
Apr. 20 (M)	Last day to receive 75% refund for fourth 4-week session
May 12 (T)	Last day of exams for second 12-week, second 8-week & 16-week sessions <i>(Exam dates and times to be determined by your instructor)</i>
May 14 (TH)	Fourth 4-week session ends
May 15 (F)	Last day to withdraw for second 12-week, second 8-week, 16-week & fourth 4-week sessions to ensure a grade of "WE" <i>(Withdrawals must be submitted to Record's Office by 3 p.m. on this day)</i>
May 15 (F)	Grades due by 3 p.m. for second 12-week, second 8-week, 16-week & fourth 4-week sessions

Revised April 24, 2020

Please Note: Financial Aid Recipients who totally withdraw from all classes prior to the 60% point of each course may be responsible for the repayment of Pell Grant, FSEOG and/or State funds.

Summer Semester 2020

May 19 (T)	10-week session begins
May 25 (M)	Memorial Day Holiday (No Classes/College Open)
May 26 (T)	Last day to receive 75% refund for 10-week session
Jun. 3 (W)	8-week and first 4-week sessions begin
Jun. 3 (W)	Last day to receive 75% refund for first 4-week session
Jun. 3-4 (W-TH)	Drop/Add
Jun. 8 (M)	Last day to receive 75% refund for 8-week session
Jun. 23 (T)	Last day to withdraw from first 4-week session to ensure a grade of "W"
Jun. 30 (T)	First 4-week session ends
Jul. 2 (TH)	Independence Day Holiday (No Classes/College Open)
Jul. 3 (F)	Independence Day Holiday (College Closed)
Jul. 6 (M)	Second 4-week session begins
Jul. 6 (M)	Last day to receive 75% refund for second 4-week session
Jul. 13 (M)	Last day to withdraw from 10-week session to ensure a grade of "W"
Jul. 16 (TH)	Last day to withdraw from 8-week session to ensure a grade of "W"
Jul. 23 (TH)	Last day to withdraw from second 4-week session to ensure a grade of "W"
Jul. 30 (TH)	10-week, 8-week and second 4-week session ends

Revised April 24, 2020

Please Note: Financial Aid Recipients who totally withdraw from all classes prior to the 60% point of each course may be responsible for the repayment of Pell Grant, FSEOG and/or State funds.

General Information

History

Mitchell Community College was founded in 1852 as Concord Presbyterian Female College and later became Simonton Female College. In the early years, the emphasis was on music and fine arts programs. As the curriculum expanded the College hired Miss Margaret Mitchell, daughter of Dr. Elisha Mitchell of the University of North Carolina to teach botany. In 1875, the Board of Trustees selected Miss Mitchell's sister, Mrs. Eliza Mitchell Grant as president of the College. The institution thrived under their leadership. In 1917, the College was renamed Mitchell College in honor of Dr. Mitchell and his daughters. Growth continued and Mitchell became a "junior college" in 1924. In 1932, Mitchell opened enrollment to male students.

In 1973, Mitchell College joined the North Carolina Community College System as the fifty-seventh member and the only private college to be admitted. With the change came the new name Mitchell Community College. Today, Mitchell is a comprehensive, open-admissions college dedicated to meeting the postsecondary education and training needs of the citizens of Iredell County and the surrounding areas. Throughout its rich history, Mitchell has proven its commitment, perseverance, and ability to adapt to the changing educational and training needs of the community.

Mission

Mitchell Community College, a learning-centered institution, provides affordable, high quality educational and training programs and services to meet the changing and diverse lifelong learning needs of a multi-culturally diverse citizenry who live and work in a global society.

Purpose

Mitchell Community College commits its resources to:

- Provide associate degree, diploma, and certificate programs to meet the pre-service and in-service workforce development needs for industry, business, government, and service occupations
- Provide associate degree programs for the first two years of academic courses leading to baccalaureate and professional degrees
- Provide each student the opportunity to develop the skills and values necessary to succeed in college
- Provide student development services including admissions, financial aid, counseling, and career planning, job placement, testing, and student activities
- Provide educational opportunities to meet the professional, personal, and cultural needs of the community
- Serve the adult population with basic education and salable skills; to enhance personal development through general and continuing education

Belief Statements

The faculty, staff and administration of Mitchell Community College are committed to the philosophy of the comprehensive community college. We believe:

- Students and student success are the focal points of all efforts of the college;
- We are a community college that respects and celebrates diversity and inclusion;
- We have a responsibility to enhance the social, civic, cultural and economic development of our community and its place in a global society;
- We provide educational opportunities for those who might otherwise not have them;
- We make data driven decisions and monitor our progress toward stated goals;
- That we provide our employees with a safe and supportive work environment with the opportunity to grow and learn;
- We must foster an environment of trust and teamwork as we move toward a common goal;
- We must perform each day with competence, innovation and integrity;
- We make a positive difference in the lives of our students, our employees and our community...our work matters.

Values

- **Integrity**—We demonstrate integrity through professional, ethical, transparent and consistent behavior in both our decision-making and in our treatment of others; being accountable for our work and actions is the basis of trust.
- **Caring**—We demonstrate caring through attentive and responsive action to the needs of students and others. We listen with open minds, speak kindly and foster relationships based on mutual respect and trust.
- **Collaboration**—We demonstrate collaboration through the mutual commitment of individuals and organizations who come together for a common cause, encouraging self-reflection, teamwork and respect for ourselves and others.
- **Quality**—We demonstrate quality through innovation in the continuous improvement of all processes and services, encouraging students and others to become creative thinkers.
- **Inclusion**—We demonstrate inclusion by seeking involvement and providing access for those with diverse backgrounds to work toward a culture of equality while maintaining differences in a peaceful way.
- **Service**—We demonstrate service by striving to make the communities we serve great places to live, work and learn through our involvement, both as an organization and as individuals.
- **Leadership**—We demonstrate leadership by nurturing the full development of those we serve, identifying and empowering individuals' greatest strengths.

Approved by Mitchell Community College Board of Trustees May 27, 2015.

Accreditation

Mitchell Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees, diplomas and certificates. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of Mitchell Community College. *Note: The Commission on Colleges should be contacted only if there is evidence that appears to support an institution's significant non-compliance with a requirement or standard.*

Commission of Colleges of the Southern Association of Colleges and Schools (SACS-COC)
1866 Southern Lane, Decatur, Georgia 30033-4097, Phone (404) 679-4501, www.sacscoc.org

Commission on Accreditation of Allied Health Education Programs (CAAHEP)
1361 Park Street, Clearwater, FL 33756, Phone (727) 210-2350, www.caahep.org

National Association of Education for Young Children (NAEYC)
1313 L Street NW Suite 500, Washington, DC 20005, Phone (202) 232-8777, www.naeyc.org

National Association of Schools of Music (NASM)
11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248, Phone (703) 437-0700, Fax (703) 437-6312, <https://nasm.arts-accredit.org/>

Accreditation Commission for Education in Nursing
3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, Phone (404) 975-5000, Fax (404) 975-5020, www.acenursing.org

Accreditation information is published to enable interested constituents (1) to learn about the accreditation status of the institution, (2) to file a third-party comment at the time of the institution's decennial review, or (3) to file a complaint against the institution for alleged non-compliance with a standard or requirement. Normal inquiries about Mitchell Community College, such as admissions requirements, financial aid, educational programs, etc., should be addressed directly to Mitchell Community College and not the listed accrediting organizations.

Memberships

American Association of Collegiate Registrars and Admissions Officers
American Community College Business Officers
American Association of Community Colleges
American Association of Community Colleges President Academy
American Association of Medical Assistants

American Association of University Women
American Association of Women in Community Colleges
Association of Community College Business Officers
Carolinas Association of Collegiate Registrars and Admissions Officers
College Stores Association of NC
Commission on Accreditation of Allied Health Programs
Community College Planning and Research Organization
Cooperative Education Association
Council for Higher Education Accreditation
Greater Statesville Chamber of Commerce
International Association of Administrative Professionals
League for Innovation in the Community College
Mooresville-South Iredell Chamber of Commerce
National Association of Education for Young Children (NAEYC)
National Association of Schools of Music
National Association of Student Financial Aid Administrators
National League for Nursing: Associate Degree Nursing
North Carolina Association of Community College Trustees
North Carolina Association of Coordinators of Veteran Affairs
North Carolina Association of Student Financial Aid Administrators
NC College and University Personnel Association
Organization for Associate Degree Nursing
Southern Association of Colleges and Schools Commission on Colleges
Southern Association of Colleges with Associate Degrees
The College Board

Office for Advancement

The Office for Advancement is home for the college's fundraising, marketing and communications, alumni relations, and community relations offices. The office is located in Kirkman House on the historic Statesville Campus. You can contact the Office for Advancement at (704) 878-4321.

Through the Mitchell Community College Foundation and Endowment for Excellence, the Advancement Office annually raises hundreds of thousands of dollars in support of financial aid, academic programs, and other college priorities. With assets totaling nearly \$20 million, the College and Foundation endowments provide sustaining support to enhance every student's experience. To learn more, email giving@mitchellcc.edu.

The Marketing and Communications Office is responsible for producing publications for the entire college. The office also maintains the college's website and social media channels and produces digital video and graphics to meet a number of advertising and marketing needs. Together with the community relations program, the college's marketing efforts strive to bring Mitchell to the Iredell County service area.

Mitchell's Alumni Association supports our community of thousands of Mitchell graduates spanning nearly a century of time. From alumni who graduated from Mitchell in the 1930s to this year's class, the Alumni Association helps to keep your connection to the college warm and friendly. Each May, the college hosts Alumni Day, welcoming all graduates back to campus for a weekend of gatherings and events. Email alumni@mitchellcc.edu for more information.

Alumni

The Alumni Association strives to stay in touch with graduates, help graduates connect with one another and to share information about personal and professional accomplishments. All graduates are invited to an annual alumni reunion held in May. Email alumni@mitchellcc.edu.

Veterans

Refer to section on Veteran Affairs.

EEO

Mitchell Community College does not discriminate on the basis of race, color, religion, gender, national origin, age, disability, genetic information or sexual orientation in any of its policies, procedures, or practices. This nondiscrimination policy covers admission of students, employment actions and all campus programs, services and activities. Mitchell Community College does not discriminate on the basis of sex in admission to or employment in its education programs or activities. Inquiries concerning the application of Title IX and implementation of its regulations may be referred to the Director of Human Resources, who serves as the Title IX Coordinator, or the Assistant Director of Financial Aid, who serves as the Deputy Title IX Coordinator, located at 500 West Broad Street, Statesville, NC 28677-5264; or, by contacting the Office for Civil Rights, District of Columbia Office, U.S. Department of Education: Telephone (202) 453-6020 email ocr.dc@ed.gov. *See also page 2.*

Disability Support Services

The Mission of Disability Services is to lead the Campus Community in the creation of an inclusive learning and working environment; and facilitate access, discourse, and involvement through innovative services, programs, and partnerships. Students should contact Disability Services as soon as possible before the first day of class for which accommodations are needed. Students seeking assistance must provide recent documentation which includes relevant medical, psychological, educational and/or emotional diagnostic tests or evaluations that verify the need for accommodation. Students will need to meet with Disability Services to complete an accommodation plan each semester. For more information, please contact the Coordinator of Disability Services at your campus or by calling (704) 878-3242. Disability Services provides reasonable academic accommodations to students with a documented disability under the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973.

Mitchell Community College 2018 Performance Measures North Carolina Community College System

Success rate of students in college-level English courses:

- State Average: 53.0%
- Mitchell Outcome: 50.7%

Success rate of students in college-level Math courses:

- State Average: 32.5%
- Mitchell Outcome: 29.8%

First Year Progression:

- State Average: 70.9
- Mitchell Outcome: 71.2%

Curriculum Completion Rate:

- State Average: 43.4%
- Mitchell Outcome: 52.1%

Licensure Pass Rate:

- State Average: 79.8%
- Mitchell Outcome: 75.5%

Transfer Student Performance:

- State Average: 83.7%
- Mitchell Outcome: 83.3%

Information about the College

Information about crime on the College campus, graduation rates and other consumer information can be found at mitchellcc.edu/consumer-info.

Admissions

Overview

Mitchell Community College has an “open door” admissions policy and accepts students without regard to race, religion, sex, color, creed, national origin, age or disability. Mitchell is open to anyone 18 years old or older or high school graduates younger than 18. Admission to the College does not guarantee acceptance to the program of your choice or guarantee continued enrollment in the College.

Mitchell offers four college transfer programs for students who plan to continue their education at a senior institution:

- Associate in Arts (A.A.)
- Associate in Science (A.S.)
- Associate in Fine Arts (A.F.A.)
- Associate in Engineering (A.E.)

Mitchell offers Associate in Applied Science (A.A.S.) degrees, diplomas, and certificates for students who intend to enter the workforce after graduation.

Admissions Requirements for Degree Seeking Students

Degree-seeking students must present proof of high school graduation or high school equivalency diploma.

- High school graduates
In order to be admitted as a degree-seeking students, applicants must present official transcripts from a public, private, or home school that is recognized under state law at the time of graduation. Note: Online high schools must meet the additional requirement of being accredited by a recognized accrediting agency at the time of graduation. A list of recognized accrediting agencies may be found on the following websites:
 - www.chea.org
 - ope.ed.gov/accreditation
 - www.advanc-ed.org
- High school equivalency students
In order to be admitted as a degree-seeking student, applicants must present proof of high school equivalency diploma.

Admissions Requirements for Special Credit Students

- Minimum age of 18 with or without a high school diploma.

How to Apply

- Complete Residency Determination.
- Submit official copies of transcripts or records from high schools and all postsecondary schools attended, or acceptable high school equivalency scores. If an associate degree or higher has been earned, high school transcripts/high school equivalency scores are not required.
- Take the College Placement Test (CPT). Testing requirements for specific programs of study are available from the Admissions Office. An applicant may be exempt from placement tests depending on past college credit earned. Also, applicants who have graduated high school within 5 years of college application who meet the following criteria may be exempt from placement testing under the NCCCS Multiple Measures for Placement Policy:
 1. Minimum unweighted GPA of 2.6 and four years of high school math including Algebra I, Geometry, Algebra II and an acceptable senior level math.
 2. Minimum scores for ACT and/or SAT.
- Contact an Admissions Specialist to discuss placement needs.

Readmitted Students

Applicants who have not attended for one or more years must submit a new application. Applicants must contact an Admissions Specialist to determine if any placement testing is needed. Applicants will discuss any changes to the curriculum since their last date of attendance

with an advisor. Applicants for readmission to limited enrollment programs must follow regular admission procedures for those programs.

Transfer Students

Transfer students may enter Mitchell after meeting all admission requirements. Mitchell will accept credits (with equivalent credit hours and course content) from all institutions within the North Carolina Community College System and from other accredited colleges. Students may transfer credits earned at other institutions if the grades meet Mitchell's academic standards and if Mitchell receives documentation proving that equivalent competencies were met. Mitchell must receive official transcripts for the student to receive transfer credit. Final acceptance or rejection is at the discretion of the College. Applicants must contact an Admissions Specialist to determine if any placement testing is needed. A minimum of 25% of the credits required for a degree, diploma or certificate must be earned at Mitchell, in order to be eligible for graduation.

Visiting Students

Students accepted by or enrolled at another institution may enroll at Mitchell as a visiting student. Visiting students must complete an application and should have the permission from an official at their home institution. This official should specify the courses the student can take at Mitchell. The student should only enroll in courses specified by their home institution and must meet any required prerequisites or their equivalents.

Special Credit Students

An individual who does not want to earn a degree, diploma or certificate, can enroll as a special credit student. The student should complete an application and indicate SPECIAL CREDIT STUDENT as the program of interest. Special credit students must meet prerequisites or corequisites. Special credit students must meet with a Student Services Advisor to have an educational plan created. Students who wish to convert from "special" to "degree-seeking" must complete the full admissions process including placement testing. Degree requirements are based on the catalog in effect at the time of the status change.

Auditing/Non-Degree Students

Students who wish to audit a course must register and receive the approval from the instructor. Audit students do not receive credit and must adhere to attendance policies and meet prerequisites and corequisites. Students cannot change an audit course to a credit course or a credit course to an audit course after drop/add. Students cannot receive credit for an audit course toward a certificate, diploma, or degree. Curriculum students will have priority over audit students for registration. Students who register for a course as audit work but then withdraw will receive a grade of "W" for the course. The fees for audit courses are the same as those taken for credit.

High School Students Career and College Promise

Mitchell Community College provides several programs for high school students. All public, private, charter, and home school students are encouraged to take advantage of dual enrollment opportunities at the College. There is no charge for tuition, but students must pay fees and purchase books and materials. High school students interested in taking courses at Mitchell Community College must meet program eligibility requirements.

- **College Transfer Pathways** provide up to 41 hours of course credits toward the Associate in Arts, Associate in Science, or Associate in Engineering that will transfer seamlessly to any public or participating private college or university, saving successful students time and money in pursuing four-year degrees. Interested students should contact their high school counselor. Students are dually enrolled at their high school and Mitchell.
- **Career and Technical Education Pathways** allow students to earn credits at Mitchell Community College toward a job credential, certificate, or diploma in a technical career. Interested students should contact their high school counselor. Students are dually enrolled at their high school and Mitchell.

Through an alliance with our public school partners, Mitchell Community College also offers opportunities for high students through three early college high schools. Students take high school and college classes over 5 years (grades 9-13) in pursuit of a high school diploma and an

associate degree or up to 2 years of college credit. Interested students should contact their high school counselor. The application is open to all eighth graders in Iredell County.

- **CTL (The Collaborative College for Technology and Leadership)** is located on the Statesville Campus and provides a technology-enriched, leadership-focused curriculum. The curriculum is designed to meet the individual needs of students, ensuring that they are fully prepared to enter the workforce or to continue their education at a four-year institution.
- **Crossroads Arts and Science Early College** is located on the campus of Statesville High School. Crossroads offers a traditional honors curriculum in conjunction with college course work. Crossroads provides a variety of Fine Arts electives for students, along with CTE options like Entrepreneurship and Project Management.
- **Agriculture and Science Early College** is located on the campus of North Iredell High School and has a strong focus in agriculture and science. Agriculture students are enrolled in college courses aligned with high school CTE classes and will have the opportunity to participate in North Iredell High School's extensive Future Farmers of America program. In addition, students will also have the option of earning credits toward a traditional transfer degree.

Continuing Education Students

Students who are high school graduates or 18 years old or 16 years old with special permission are eligible to enter a continuing education program. For more information, see the Continuing Education section.

Residency

Residency status is not determined by Mitchell Community College. In order to apply to Mitchell Community College, an applicant will need to complete the residency application through the North Carolina Residency Determination Service (RDS). For more information, please visit ncresidency.org, or call 1(919) 835-2290.

A legal resident must have maintained his or her domicile in North Carolina for at least twelve months prior to his or her classification as a resident for tuition purposes. For information regarding tuition and fees for in and out of state residents, please see the college catalog section on Tuition and Fees (page 21-22).

Veterans who have separated from the service within the last three years may qualify for Section 702 of the Choice Act. Please see the School Certifying official for more information regarding In-state tuition.

Placement Testing

Applicants to associate level programs of study as well as all Career and College Promise students are required to show competence in English and mathematics. Diploma and certificate level students are required to take placement testing if any course within the diploma or certificate has English or math prerequisites. Applicants may do one of the following:

- Take the Accuplacer, Computerized Placement Tests (CPT). Students are placed in courses based on their scores.
- Completed transferable college-level coursework in English and math.
- Achieved minimum scores on ACT or SAT.
- A returning student with a completion of English and math courses.
- Received an associate degree or bachelor's degree from an accredited college or university.
- Applicants who have graduated high school within five years of college application who meet the following criteria may be exempt from placement testing under the NCCCS Multiple Measures for Placement Policy: Minimum unweighted GPA of 2.6 and four years of high school math including Algebra I, Geometry, Algebra II and an acceptable senior level math.
- Career and College Promise students may demonstrate proficiency using other approved achievement and/or placement tests. High school students should speak with their guidance counselor for more details.

Mitchell encourages prospective students to 'review' before taking placement tests. Counselors can provide information on review opportunities. Placement test scores are valid for five years. New students may retake the placement test one time before enrolling in coursework. The implementation of the RISE initiative will change placement testing Spring 2020.

Retest Policy

Test scores, including retest, will be binding for five years. After the second attempt, students seeking a subsequent retest:

*Must be requested from a developmental English or math instructor.

Orientation

Mitchell requires new students to participate in orientation programs offered at the beginning of each semester. Orientation gives students an opportunity to:

- Meet staff and other students
- Learn about resources, services, activities and policies
- Help students take full advantage of opportunities on campus
- Gain access to Internet tools

Change of Program

Students who change from one program to another within the institution will have credit hours and quality points transferred based on requirements of the new program. Student must meet with their advisor to fill out the change of program form. Students who change programs must follow the program requirements in the current catalog.

College Level Examination Program

Mitchell may allow credit for college work based on appropriate scores on the CLEP General Examination if the work is relevant to the student's program of study. A minimum of 25% of the credits required for a degree, diploma or certificate must be taken at Mitchell in order to graduate.

CLEP Exam	Score Required	Hours Granted	Course(s) Satisfied
American Government	50	3	POL 120
American Literature	50	3	ENG 233
Analyzing and Interpreting Literature	50	3	ENG 131
College Composition	50	6	ENG 111, 112
College Composition Modular	50	3	ENG 111
English Literature	50	3	ENG 243
French Language, Level 1 Proficiency	50	6	FRE 111, 112
Level 2 Proficiency	59	9	FRE 111, 112, 211
German Language, Level 1 Proficiency	50	6	GER 111, 112
Level 2 Proficiency	60	9	GER 111, 112, 211
History of the United States I: Early Colonization to 1877	50	3	HIS 131
History of the United States II: 1865 to Present	50	3	HIS 132
Human Growth and Development	50	3	PSY 241
Information Systems	50	3	CIS 110
Introductory Business Law	50	3	BUS 115
Introductory Psychology	50	3	PSY 150
Introductory Sociology	50	3	SOC 210
Principles of Macroeconomics	50	3	ECO 252
Principles of Management	50	3	BUS 137

CLEP Exam	Score Required	Hours Granted	Course(s) Satisfied
Principles of Microeconomics	50	3	ECO 251
Spanish Language, Level 1 Proficiency	50	6	SPA 111, 112
Level 2 Proficiency	63	9	SPA 111, 112, 211

College Board Advanced Placement Program

Mitchell may allow credit for college work based on exams as given through the College Board Advanced Placement Program if the work is relevant to the student's program of study. Scores on the exams must be three, four or five. A minimum of 25% of the credits required for a degree, diploma or certificate must be taken at Mitchell in order to graduate.

AP Exam	Score Required	Hours Granted	Course(s) Satisfied
<i>Art History</i>	3	6	<i>ART 114, 115</i>
<i>Biology</i>	3	8	<i>BIO 111, 112</i>
<i>Calculus AB</i>	3	4	<i>MAT 271</i>
<i>Calculus BC</i>	3	8	<i>MAT 271, 272</i>
<i>Chemistry</i>	3	8	<i>CHM 151, 152</i>
<i>Comparative Government & Politics</i>	3	3	<i>POL 230</i>
<i>Computer Science A</i>	3	3	<i>CIS 115</i>
<i>English Language & Composition</i>	3	6	<i>ENG 111, 112</i>
<i>English Literature & Composition</i>	3	6	<i>ENG 231, 232</i>
<i>French Language and Culture</i>	3	6	<i>FRE 111, 112</i>
	4	9	<i>FRE 111, 112, 211</i>
	5	12	<i>FRE 111, 112, 211, 212</i>
<i>German Language and Culture</i>	3	6	<i>GER 111, 112</i>
	4	9	<i>GER 111, 112, 211</i>
	5	12	<i>GER 111, 112, 211, 212</i>
<i>Italian Language and Culture</i>	3	6	<i>ITA 111, 112</i>
	4	9	<i>ITA 111, 112, 211</i>
	5	12	<i>ITA 111, 112, 211, 212</i>
<i>Macroeconomics</i>	3	3	<i>ECO 252</i>
<i>Microeconomics</i>	3	3	<i>ECO 251</i>
<i>Physics 1</i>	3	4	<i>PHY 151</i>
<i>Physics 2</i>	3	8	<i>PHY 151, 152</i>
<i>Physics C: Electricity and Magnetism</i>	3	4	<i>PHY 252</i>
<i>Physics C: Mechanics</i>	3	4	<i>PHY 251</i>
<i>Psychology</i>	3	3	<i>PSY 150</i>
<i>Spanish Language and Culture</i>	3	6	<i>SPA 111, 112</i>
	4	9	<i>SPA 111, 112, 211</i>
	5	12	<i>SPA 111, 112, 211, 212</i>

AP Exam	Score Required	Hours Granted	Course(s) Satisfied
<i>United States Government & Politics</i>	3	3	<i>POL 120</i>
<i>Statistics</i>	3	4	<i>MAT 152</i>
<i>United States History</i>	3	6	<i>HIS 131, 132</i>
<i>World History</i>	3	6	<i>HIS 111, 112</i>

Military Service Experience

Veterans may receive credit for USAFI courses and for service school training where appropriate to the student's program and where a comparable course is offered by the College. USAFI courses are evaluated on the basis of the catalog of the USAFI.

School Service Training is evaluated on the basis of "A Guide to the Evaluation of Educational Experiences in the Armed Services," published by the American Council on Education. Credit is allowed for physical education to veterans upon presentation of discharge or separation papers appropriate to the veteran's course of study. Final acceptance or rejection of the credit lies with Mitchell. Credit for prior military courses and service is evaluated from the Joint Services Transcript.

Competitive Enrollment Programs

For these programs, applicants must meet additional requirements that may include mathematics and science courses, certifications, physical (medical) exams, etc. Some of these programs have more applicants than available space and may have specific application deadlines. Competitive enrollment programs include:

- Associate Degree Emergency Medical Science
- Associate Degree Nursing
- Medical Assisting
- Paramedic to Associate Degree Nursing
- Medical Laboratory Technology (with Southwestern Community College)
- Dietetic Technician (with Gaston College)
- Speech Language Pathology Assistant (with Caldwell Community College and Technical Institute)
- Health Information Technology (with Pitt Community College)

Associate Degree Emergency Medical Science

Mitchell Community College has an open door policy for general admission to the College.. Admission to the College does not, however, guarantee admission to the Associate Degree Emergency Medical Science program. Admission into the Emergency Medical Science program is competitive. In addition to the College's requirements for admission, the following are minimum requirements for admission to the Associate Degree Emergency Medical Science program:

- 1. Mitchell Community College Application:** Applicants must complete the College application for admission and submit to Student Services.
- 2. High School or high school equivalency transcript:** Graduation from a high school as specified under admission requirements for degree seeking students, complete high school transcript, or equivalent as established by a high school equivalency test.
- 3. College Transcripts:** Official transcripts from all previously attended colleges must be received by the College. To be considered official, transcripts must be in a sealed envelope. Grades less than C are not transferable into the Associate Degree in Emergency Medical Science Program.
- 4. Biology Course:** Applicants must have completed with a grade of C or better, one year of high school biology and/or BIO 110 Principles of Biology, BIO 111, General Biology I, or BIO 168 Anatomy and Physiology I or equivalent or demonstration of competency. A biology course must be current within five years.
- 5. Associate Degree Emergency Medical Science Program Application:** Applicant must complete Program Application with assigned Emergency Medical Science Coordinator.
- 6. Physical and Emotional Health:** Applicant will provide validation of satisfactory physical and emotional health and current immunizations after receipt of conditional acceptance and prior to final admission into the Emergency Medical Science program. Required immunizations include:
 - 2 MMR vaccines (measles, mumps, rubella)
 - 2 varicella vaccines or positive titer

- 2-step tuberculosis skin test
- Tdap within last ten years (tetanus, diphtheria, pertussis)
- Annual influenza immunization

7. Background Check and Drug Screen: Meet requirements as prescribed by clinical agencies. Students who have not lived in North Carolina for the last five years must provide fingerprints (available from the Iredell County Sheriff Department).

8. Student must be 18 years of age prior to first day of the semester (clinical agency requirement).

9. Student must carry personal health insurance (clinical agency requirement).

Associate Degree Nursing

The Department of Nursing understands and accepts the concept of the open-door policy for general admission to Mitchell Community College. Admission to the College does not, however, guarantee admission to the Associate Degree Nursing program. Admission into the nursing program is competitive. In addition to the College's requirements for admission, the following are minimum requirements for admission to the Associate Degree Nursing program:

- 1. Mitchell Community College Application:** Applicants must complete the College application for admission and submit to Student Services.
- 2. High School or high school equivalency transcript:** Graduation from a high school as specified under admission requirements for degree seeking students, complete high school transcript, or equivalent as established by a high school equivalency test.
- 3. College Transcripts:** Official transcripts from all previously attended colleges must be received by February 1 to the College. To be considered official, transcripts must be in a sealed envelope. Grades less than C are not transferable into the Associate Degree Nursing Program.
- 4. Required GPA:** Applicants must have a minimum 2.5 cumulative grade point average. General education courses toward the A.A.S. Nursing degree must be completed with a grade of C or better.
- 5. Biology Course:** Applicants must have completed with a grade of C or better, high school biology and/or BIO 110 Principles of Biology, BIO 111, General Biology I, or BIO 168 Anatomy and Physiology I or equivalent. A biology course must be current within five years or demonstration of competency.
- 6. Chemistry Course:** Applicants must have completed with a grade of C or better, high school chemistry and/or CHM 131 and 131A lab, Introduction to Chemistry or equivalent.
- 7. TEAS Testing:** Applicant must achieve a minimum adjusted individual test score of 68 percent on the Test of Essential Academic Skills. For more information about the TEAS Exam, see the official website at <http://www.atitest.com/default.aspx>. TEAS Review Books may be purchased through the Mitchell Community College Bookstore.
- 8. Associate Degree Nursing Program Application:** Applicant must complete Program Application with assigned nursing advisor.
- 9. Nursing Assistant I:** Applicant must be listed as a Nursing Assistant I on the Nurse Aide I Registry with no substantiated findings, from the N.C. Department of Health and Human Services Division of Health Service Regulation: Health Care Personnel Registry prior to the first day of NUR 111. Practical nurses with current license are exempt.
- 10. Physical and Emotional Health:** Applicant will provide validation of satisfactory physical and emotional health and current immunizations after receipt of conditional acceptance and prior to final admission into the nursing program. Required immunizations include:
 - 2 MMR vaccines (measles, mumps, rubella) or positive titer
 - 2 varicella vaccines or positive titer
 - 2-step tuberculosis skin test
 - Tdap within last ten years (tetanus, diphtheria, pertussis)
 - Annual influenza immunization
 - Hepatitis B immunization
- 11. CPR Certification:** Applicant must hold current CPR certification by the American Heart Association at the BLS Provider level by time of enrollment into the clinical nursing component and maintained throughout the NUR course sequence.
- 12. Background Check and Drug Screen:** Meet requirements as prescribed by clinical agencies. Students who have not lived in North Carolina for the last five years must provide fingerprints (available from the Iredell County Sheriff Department).
- 13. Student must be 18 years of age prior to first day of the semester** (clinical agency requirement).
- 14. Student must carry personal health insurance** (clinical agency requirement).
- 15. Nursing students are required to have an electronic mobile device with access to the Internet.** For specific requirements see electronic mobile device policy.

A limited number of openings exist in the Associate Degree Nursing program. Admissions consideration begins January 1 of each year. Applications will be accepted until February 15 of each year. Qualified applicants will be ranked. Points will be awarded in several categories including: TEAS score, related courses and grades earned, and previous post-secondary education. Students applying for re-admission are required to meet the current admission criteria. No student is considered to be a nursing student at Mitchell Community College until the student receives official, written notification of admission as given by the Admissions Office and the student enrolls in the nursing courses. Mitchell Community College does not use waiting lists for the nursing program. Applicants must re-apply for each year they wish to be considered for admission.

Qualifications of Graduates for Examination

Upon graduation from the nursing program and to be eligible for licensure by examination, the graduate shall make application to the Board of Nursing and shall submit to the Board an application fee and written evidence, verified by oath, sufficient to satisfy the Board that the applicant has graduated from a course of study approved by the Board and is mentally and physically competent to practice nursing.

Technology Requirement

The Associate Degree Nursing curriculum is taught using a concept based model. Students are expected to have reliable access to the Internet and an electronic mobile device is required. The program utilizes e-textbooks and many assessments are completed online.

The Associate Degree Nursing program is accredited by the **Accreditation Commission for Education in Nursing** (ACEN) <http://www.acenursing.org>, 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, Phone (404) 975-5000,

Medical Assisting

Medical Assisting understands and accepts the concept of the open-door policy for general admission to Mitchell Community College. Admission to the College does not, however, guarantee admission to the Medical Assisting diploma program. The Medical Assisting curriculum is structured as a 1+1 technical program that ultimately leads to an A.A.S. degree. After successful completion of the externship practicum, the student graduates with a diploma in Medical Assisting and may be eligible to take the certification examination. The A.A.S. degree can be completed at a later time.

In addition to the College's admission requirements, the following are minimum requirements for admission into the Medical Assisting Diploma program:

- 1. Mitchell Community College Application:** Applicants must submit the College application for admission and meet all entrance requirements.
- 2. High School or high school equivalency transcript:** Graduation from a high school as specified under admission requirements for degree seeking students, complete high school transcript, or equivalent as established by a high school equivalency test.
- 3. College Transcripts:** Official transcripts from all previously attended colleges must be received by the College. To be considered official, transcripts must be in a sealed envelope. Grades less than C are not transferable into the Medical Assisting program. Anatomy and Physiology must be current within the most recent five years and MED prefix coursework must be from another CAAHEP accredited program and current within the most recent five years. Students requesting MED prefix course transfer credits from other CAAHEP accredited programs will be asked to show proficiency through competency testing for MAERB Cognitive, Psychomotor and Affective Domains. If the student is unable to show competency in the Cognitive, Psychomotor and Affective Domains for the requested transfer course, the course will need to be repeated in the Medical Assisting program.
- 4. Required GPA:** Applicants must have a minimum 2.0 cumulative grade point average. All course work toward the MED diploma and subsequent A.A.S. curriculum must be completed with a grade of C or better.
- 5. Medical Assisting Program Application:** Applicant must complete program application and submit in a sealed envelope to the Program Specialist in the Division of Nursing, Natural, and Health Sciences.
- 6. CPR Certification and First Aid:** Applicant must hold both American Red Cross First Aid Certification and CPR certification by the American Heart Association at the BLS Provider level prior to enrolling in medical assisting clinical courses and current through the last day of the externship practicum. This certification must include hands-on skills components, AED use, and other lifesaving skills.

7. Physical and Emotional Health: Applicant will provide validation of satisfactory physical and emotional health and current immunizations prior to enrolling in medical assisting clinical courses. Required immunizations include:

- 2 MMR vaccines (measles, mumps, rubella) or positive titer
- 2-step tuberculosis skin test (PPD), negative QuantiFERON Gold, or equivalent
- Tdap within last ten years (tetanus, diphtheria, pertussis)
- Hepatitis B immunization
- Annual influenza immunization (strongly suggested)
- 2 Varicella vaccine or positive titer

8. Background Check and Drug Screen: Meet requirements as prescribed by clinical agencies for placement into the externship practicum. The student will bear this cost. If any clinical agency refuses to allow the student to participate in externship practicum experiences, for any reason, the student will not be able to complete the program.

9. Student must be 18 years of age prior to first day of summer semester (externship agency requirement).

10. Student must carry personal health insurance (externship agency requirement).

Medical Assisting is a limited enrollment program beginning each year in the fall; resources such as clinical externship sites and faculty limit the number of applicants accepted into the program. Students who have completed minimum requirements should submit the application beginning March 1st of each year. Qualified applicants will be accepted for the fall until the class is full. After that, an alternate list will be established. The Program Coordinator will notify candidates of their acceptance in late April. Applicants must re-apply for each year they wish to be considered for admission, as Mitchell Community College does not use waiting lists for the medical assisting program. Students applying for re-admission are required to meet the current criteria.

No student is considered to be a medical assisting student at Mitchell Community College until the student receives official, written notification of admission as given by the Admissions Office and the student enrolls in medical assisting courses.

Qualifications of Graduates for Examination

Graduates from the medical assisting diploma program may be eligible for certification as a CMA (AAMA) after successful completion of all coursework required for the diploma. The graduate shall make application to the AAMA and submit an application fee and written evidence of graduation from a course of study approved by Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

The Medical Assisting Diploma program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB). CAAHEP, 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763, Phone (727) 210-2350; Fax (727) 210-2354.

Paramedic to Associate Degree Nursing Option (A45110PB)

A limited number of openings exist in the Paramedic to Associate Degree Nursing Bridge option. Qualified applicants will be ranked. Points will be awarded in several categories including: TEAS score, related courses and grades earned, and previous post-secondary education. Accepted students will receive official, written notification of admission from the Office of Admissions. Mitchell Community College does not use waiting lists and applicants must re-apply for each year they wish to be considered for admission. Students applying for re-admission are required to meet current admission criteria.

The successful candidate for this program must complete the following:

- 1. Mitchell Community College Application:** Applicants must submit the College application for admission and meet all entrance requirements.
- 2. High School or high school equivalency transcript:** Graduation from a high school as specified under admission requirements for degree seeking students, complete high school transcript, or equivalent as established by a high school equivalency test.
- 3. College Transcripts:** Official transcripts from all previously attended colleges must be received by the College. To be considered official, transcripts must be in a sealed envelope. Grades less than C are not transferable into the Associate Degree Nursing Program.
- 4. Required GPA:** Applicants must have a minimum 2.0 cumulative grade point average. General education course work toward the A.A.S. Nursing degree must be completed with grade of C or better. NUR coursework must be completed with grade B or better.

- 5. ATI TEAS Testing:** Applicant must achieve a minimum adjusted individual test score of 68 percent on the Test of Essential Academic Skills (ATI TEAS). For more information about the ATI TEAS Exam, see the official website at <http://www.atitesting.com/default.aspx>. ATI TEAS Review Books may be purchased through the Mitchell Community College Bookstore.
- 6. Paramedic to Associate Degree Nursing Bridge (A45110PB) Program Application:** Applicant must complete Paramedic Bridge Program Application with assigned nursing advisor.
- 7. Valid, unrestricted North Carolina Paramedic certification or National Registry Paramedic Certification.**
- 8. Physical and Emotional Health:** Applicant will provide validation of satisfactory physical and emotional health and current immunizations prior to enrolling. Required immunizations include:
 - 2 MMR vaccines (measles, mumps, rubella) or positive titer
 - 2 varicella vaccines or positive titer
 - 2-step tuberculosis skin test, negative QuantiFERON Gold, or equivalent
 - Tdap within last ten years (tetanus, diphtheria, pertussis)
 - Annual influenza immunization
 - Hepatitis B immunization
- 9. CPR Certification:** Applicant must hold current BLS Provider CPR certification by the American Heart Association by time of enrollment into the clinical nursing component and maintained throughout the NUR course sequence.
- 10. Background Check and Drug Screen:** Meet requirements as prescribed by clinical agencies. Students who have not lived in North Carolina for the last five years will need to provide fingerprints (available from the Iredell County Sheriff Department).
- 11. Student must carry personal health insurance** (clinical agency requirement).
- 12. Students are required to have an electronic mobile device with access to the Internet.** For specific requirements, see electronic mobile device policy in Nursing Student Policy Manual.

Technology Requirement

The curriculum is taught using a concept based model. Students are expected to have reliable access to the Internet and an electronic mobile device is required. The program utilizes e-textbooks and many assessments are completed online.

The Associate Degree Nursing program is accredited by the **Accreditation Commission for Education in Nursing (ACEN)** <http://www.acenursing.org>, 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, Phone (404) 975-5000,

Medical Laboratory Technology (MLT) (A.A.S.)

General admission information is found in the Southwestern Community College catalog and website, www.southwesterncc.edu. The online collaborative program is limited to the current practicing, certified phlebotomist. The MLT program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, (847) 939-3597, (773) 714-8880, (773) 714-8886 (FAX). Website: www.naacls.org.

Dietetic Technician (A.A.S.)

General admission information can be found in the Gaston College catalog and website, www.gaston.edu. The Dietetic Technician program at Gaston College is accredited by the Commission on Accreditation for Dietetics Education (CADE), American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, Illinois 60606-6995, (312) 899-0040 ext. 5400. Website: www.eatright.org/ACEND.

Speech Language Pathology Assistant (A.A.S.)

General admission information can be found in the Caldwell Community College and Technical Institute catalog and website, www.ccti.edu. The Speech Language Pathology Assistant program is regulated by the N.C. Board of Examiners for Speech and Language Pathologists and Audiologists, P. O. Box 16885, Greensboro, N.C. 27416-0885, (336) 272-1828.

Health Information Technology (A.A.S.)

General admission information can be found in the Pitt Community College catalog and website, www.pittcc.edu/index.html. The Health Information Technology Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) 233 N. Michigan Avenue, 21st Floor, Chicago, IL 60601-5800. Website: www.cahiim.org.

Tuition and Fees

Tuition and fees are subject to change without notice by action of the North Carolina General Assembly.

Tuition

Tuition and fees for each semester are payable on or before the tuition due date deadlines located at mitchellcc.edu/payment-due-dates. Registration is not final until the student pays tuition and fees. For tuition purposes, a full-time student is enrolled in 16 credit hours or more. Regular tuition charges apply for classes taken for audit.

In-State Tuition	\$76.00 per credit hour \$1,216.00 per semester maximum (full-time)
Out-of-State Tuition	\$268.00 per credit hour \$4,288.00 per semester maximum (full-time)

Tuition and fee rates associated with courses identified as “self-supported” are determined by the Mitchell Community Board of Trustees and may differ from that set forth by the state for the Fall and Spring Semesters.

Required Student Fees

All curriculum students pay required student fees each semester.

Student Activity Fee*	\$2.50 per credit hour for 1 – 8 credit hours \$25.00 for 9 or more credit hours
Student Access Fee	\$25.00 per semester
Technology Fee	\$3.00 per credit hour \$48.00 for 16 or more credit hours
Accident Insurance Fee	\$1.25 per semester
Administrative Fee	\$10 per semester

*Student Activity Fee is assessed in the Fall and Spring semesters only.

Specific Fees

Specific fees, in addition to tuition, may be charged in some courses to cover the costs of supplies, facility charges, and materials. Students may also be required in certain courses to purchase tools and supplies. All specific fees charged for each term will be identified in the class schedule and are subject to change without notice. Fees are only refundable if the associated course is dropped before the first day of the academic term. For more information regarding refunds, please refer to the refund policy.

Books

The cost of books varies from program to program. Most students pay an estimated \$1,400 for books and required materials for the academic year. Bookstore policies and procedures are covered in the ***Student Handbook***.

Payment

Tuition and fees must be paid in full by the payment due date unless payment has been guaranteed by financial aid or a sponsor authorization agreement. Please refer to mitchellcc.edu/payment-due-dates for payment due dates.

Payment Through WebAdvisor—Full payments are accepted online via WebAdvisor. Students may select the WebAdvisor link under My Mitchell on the College’s website: www.mitchellcc.edu. MasterCard, VISA, American Express, and Discover are acceptable payment methods.

In-Person Payment—Cash, check, money order, MasterCard, VISA, American Express, and Discover credit cards are accepted at: (1) the Statesville Campus in the Eason Student Services Center, Room 200 or (2) the Mooresville Campus, Building A, Room 104. To pay by credit card, the person whose name is on the credit card must be present. Please note that starter checks are not accepted.

Sponsor Payment (ESC, Vocational Rehabilitation, Employer, etc.)—A new authorization form is required for each semester. The sponsor authorization should be mailed or brought to the Cashier's office, Mitchell Community College, 500 West Broad Street, Statesville, NC 28677-5264 as early as possible before the semester begins, but no later than five days before the student plans to see their advisor and register.

Nelnet Business Solutions Online Payment Plan (Available Fall and Spring Semesters only)—The Nelnet Payment Plan provides students the option of contracting with Nelnet Business Solutions (NBS), a third party online payment company, to arrange full payment or schedule monthly tuition payments. It can be used to budget curriculum tuition and fees only—no books. The payment plan option requires a \$2.00 enrollment fee for full payment or a \$25.00 enrollment fee for scheduled payments. These enrollment fees are charged per semester and are nonrefundable. A valid bank account, which allows Automatic Bank Payment (ACH) or Credit/Debit Card is required. A link to "Create a Payment Plan" is available through WebAdvisor under Financial Information. For students who opt to use the payment plan option, the student will be considered "PAID" once the student successfully completes the online application and once the associated payments process successfully.

Fulfillment of Financial Obligations

Students with an outstanding balance are not eligible for re-registration and cannot graduate, receive a diploma, certificate, transcript, or have their records sent to another institution until they settle their account.

Refund Policy

Mitchell Community College issues tuition refunds according to the North Carolina state policy as published in section 2D.0300 of the NC Administrative Code. Students may receive a full tuition refund if they officially withdraw before the first day of the academic term. Students may receive a 75 percent tuition refund if they officially withdraw before the official ten percent (10%) point of the academic term. No refunds will be issued for withdrawals after the ten percent (10%) point. All required fees and specific course fees are nonrefundable if the student withdraws after the first day of the academic term. For the refund schedule, please refer to: <http://www.mitchellcc.edu/paying-college/refund-dates-and-liability-schedule>. Students will receive full refunds for the classes canceled by Mitchell Community College. Please refer to Withdrawal Policy on page 30. If a student dies during the semester, Mitchell Community College will refund all tuition and fees paid by the student, to the estate of the deceased. Please refer to the withdrawal policy on page 36.

Returned Checks

A \$25.00 service fee will be charged to the student's accounts receivable file for all checks returned from the bank due to insufficient funds or closed accounts.

Residency

To qualify for in-state tuition, applicants must provide information regarding his or her length of residency in North Carolina. A legal resident must have maintained his or her domicile in North Carolina for at least twelve months prior to his or her classification as a resident for tuition purposes. Residency status is not determined by Mitchell Community College. In order to apply to Mitchell Community College, an applicant will need to complete the residency application through the North Carolina Residency Determination Service (RDS). For more information, please visit ncresidency.org, or call 1(919) 835-2290.

Financial Aid

The purpose of the Mitchell Financial Aid Office is to provide access for students who would otherwise be unable to attend Mitchell without assistance.

How to Apply

A student can apply for financial aid by completing the Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov. The simplest way to complete the FAFSA online is by using the IRS Data Retrieval Tool (DRT). The DRT is a feature that allows students and parents to access the IRS tax return information needed to complete the FAFSA, and transfer the data directly into the FAFSA. The student should indicate Mitchell Community College's federal school code (002947) on the FAFSA. Once the FAFSA is submitted online, Mitchell will receive a copy of the FAFSA electronically and will contact the student requesting additional information if a Mitchell Community College Admissions Application is on file. If no additional documentation is needed, the student will be notified of their eligibility by email. Students who are not eligible for financial aid will receive a letter with information on special circumstances and a payment plan option.

Deadlines

To guarantee the use of financial aid during early registration each semester, a student must submit all documentation as requested to the Financial Aid Office by the following dates:

- 2019 Fall Semester—July 1
- 2020 Spring Semester—November 4
- 2020 Summer Semester—April 8

Types of Financial Aid

Following is a list of financial aid available to students. A student may receive several different awards.

- Federal Pell Grant (FPELL)
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work-Study Program (FWS)
- North Carolina Community College Grant (NCCCG)
- North Carolina Education Lottery Scholarship (NCELS)
- Scholarships
- Veterans Education Benefit (See Veteran's Coordinator)
- Child Care Grant (see Child Care contact)
- Alternative Loan Program(s)

Scholarships

Mitchell awards financial aid scholarships without regard to race, religion, sex, age, disability, or national origin. To be considered for a scholarship and retain a scholarship, a student should:

- Complete the Free Application for Federal Student Aid form (FAFSA) at www.fafsa.gov
- Complete a Mitchell Community College Scholarship Application
- Have a 2.0 or higher GPA
- Be enrolled for nine or more credit hours

Donors may provide specific criteria for awarding their scholarships. Mitchell may release information on scholarship recipients to the press.

Distribution

Recipients of FPELL, FSEOG, FWS, NCCCG, NCELS, and Scholarships may charge their tuition, fees, books, and supplies against their financial aid eligibility for the semester for which they are registering, if the student received an award letter for the current academic year. In order to charge, Mitchell's Financial Aid Office will apply applicable financial aid proceeds to your account for tuition, fees, books, and supplies. Mitchell will mail a check to the student if their financial aid is greater than the expenses charged to the address listed on the Mitchell Admissions Application.

Student Rights and Responsibilities

- Financial aid is not complete until the student receives an award letter from the Financial Aid Office via the student's Mitchell email account. Students who do not receive an award letter are responsible for paying tuition and fees as well as for books, and supplies.
- Financial aid applications remain valid for one academic year. Students must re-apply annually for financial aid for the next academic year.
- Award amounts may be subject to change based on enrollment status, available funding and/or regulatory changes.
- The duration of eligibility to receive Federal Pell Grant is limited to 12 semesters (or its equivalent) under the new Pell lifetime eligibility used (LEU) regulation.
- Financial aid students may not receive financial aid from more than one institution during the same semester within the same academic year. You must notify your FA Specialist if you have attended any other college, this school year, using financial aid prior to the College finalizing your award for Mitchell.
- Students may charge books and school supplies in the Mitchell Bookstore against financial aid prior to the beginning of each semester. This service is provided as a convenience to financial aid students. Students are not required to purchase books this way. Financial aid students wanting to purchase books from another vendor will need to pay for those purchases on their own and those costs will not be deducted from their financial aid.
- Financial aid will not pay for a class a student audits or receives credit by examination.
- Financial aid will only pay for one retake of any previously passed course.
- Awards are conditional upon enrollment in an eligible program for financial aid.
- Awards are conditional upon receipt of an official high school transcript or high school equivalency by the Admissions Office.
- A student may only receive financial aid for courses that count toward graduation requirements in the declared major as listed by the Admissions Office.
- The Financial Aid Office reserves the right to review, revise or cancel an award due to professional judgment decisions, or change of academic program.
- Awards are based on students continued satisfactory academic progress (SAP).
- Students are responsible for paying any tuition, fees, books and other outstanding charges not covered by financial aid if 'Ineligible' under Mitchell's financial aid SAP standards.
- Federal, state and scholarship funds committed in an award letter are contingent upon actual receipt of the funds by Mitchell.
- The FA Award Notification is divided equally into two academic semesters. The award, based on full-time enrollment, will be prorated each semester according to the actual number of hours enrolled.
- Any remainder of a semester's award will be disbursed, by check, and mailed from Financial Services after enrollment is confirmed for the semester.
- If a student withdraws from all courses during a semester, the student will be subject to the Return of Title IV funds policy and may have to repay funds to Mitchell and/or the U.S. Department of Education.
- Students who complete short session classes and withdraw from all other classes that span an entire semester are subject to the Return of Title IV funds policy.
- The Financial Aid Office may release information pertaining to financial aid to any government agency that requires such information as allowed by the Family Educational Rights and Privacy Act (FERPA). Financial aid will no longer provide financial aid information to outside agencies.
- If a student has a payment plan and was awarded financial aid, it is the student's responsibility to notify the cashier's office of their award.

Repeated Coursework

Repeated coursework may count towards enrollment status, one-time only, if course was previously passed.

No Show

If a student is a "No Show," the student's financial aid will be calculated based on the actual number of hours enrolled and attending. Students may also be subject to being responsible for the tuition and fee charges for the class(es) reported as "No Show."

Census Date Enrollment

Financial Aid payment is based on the number of credit hours a student is enrolled in, at the 10% point of the semester. An adjustment to your schedule may affect your financial aid in many different scenarios. Be sure to speak with a Financial Aid Specialist to determine if you aid is affected.

Transfer Students

If a student transfers to Mitchell from another school, Mitchell's federal school code (002947) must be listed on the FAFSA.

Short Sessions

If a student registers for a short session that has a later start date during the semester than the first day of the semester, award funds will not be available until enrollment is confirmed in class(es).

Exclusions

Financial Aid does not pay for audited courses, credit by exams and courses not in current program of study. If a student receives Title IV funds and then decides to audit a class or receive a credit by exam, the student may be liable for repayment of those funds.

12 Semester Lifetime Limit for Federal Pell Grant and State Aid

The consolidated Appropriations Act of 2012 enacted changes that reduce the duration of a student's eligibility to receive a Federal Pell Grant to 12 semesters (or its equivalent). This change applies to all Federal Pell Grant eligible students and to all N.C. State Grant eligible students.

Eligible Programs for Financial Aid

Not all certificate programs qualify as eligible programs to award financial aid. See the Financial Aid Office.

Satisfactory Academic Progress Standard

Financial aid applicants must comply with the 2011 U.S. Department of Education's statutory requirement guidelines (34 CFR 668.34) on maintaining Satisfactory Academic Progress (SAP) to be eligible for financial aid. Mitchell's policy applies SAP standards to all federal, state, and institutional financial aid programs. To accurately measure a student's satisfactory academic progress, the policy requires a qualitative measure of progress and a quantitative measure of progress.

Qualitative Measure (Grade point requirement)—Students must maintain a 2.0 cumulative grade point average (GPA) as calculated by the Financial Aid Office. This GPA may be different than what appears on a student's transcript. For example, developmental courses are not included in a transcripts GPA, but are included for financial aid. Students must have a "C" average at the end of two academic years to graduate. A student must not be suspended according to the College's academic satisfactory academic progress policy

Quantitative Measure (Completion requirement)—Students must successfully progress through their educational programs at a specific pace to ensure program completion within maximum timeframe. Pace is calculated by dividing the cumulative number of hours the student has successfully completed by the cumulative number of hours the student has attempted, regardless of enrollment status. Transfer credits are included in both the attempted and completed hours. If a student successfully earns 67 percent of the total cumulative credits hours attempted in their program of study, the student should complete their program within maximum timeframe. Pace is measured at the end of each semester by the Financial Aid Office. Pace calculation example: Student attempts 12 credits in the fall semester and successfully completes 12 credits. The student has earned 100 percent of the credits attempted. In the spring, the student attempts 18 credits and successfully completes 15. Student has a cumulative total of 27 credits completed. The cumulative total of attempted credits is 30. **Pace:** $27 \div 30 = 90$ percent.

Maximum Time Frame (MTF)—A financial aid student's maximum time frame to complete a program cannot exceed 150 percent of the published length of the program. For example, if an academic program requires 68 credit hours to complete a degree, the student may attempt a maximum of 102 credit hours before the student exceeds their eligibility for financial aid. A student's entire academic history, including transfer hours accepted from other institutions is considered when evaluating academic progress within the established timeframe. Developmental education courses are excluded from this calculation. If a student changes majors, the total hours continue to accrue regardless of program completion. Students who decide to change majors are advised to do this early in their academic program. Students who double major must also adhere to the 150% maximum timeframe requirement. The maximum attempted credit hours allowable for financial aid will be based on the degree that requires the most credit hours.

Grades and SAP

Withdrawal—Students who receive a "W" or have previously received a "WF" will have those credits included in the number of attempted hours and will not count as successful completed hours. A "WF" will be counted in the GPA as an "F" grade.

Incomplete—Students who receive an "I" will have those credit hours included in the number of attempted hours. If the "I" becomes an actual grade, the credit hours attempted and earned will be used in the computation to determine satisfactory academic progress.

Repeated Course—The highest grade is recorded as the final grade for a repeated course. The grade points and credit hours earned will be used in the computation of satisfactory academic progress. A student may receive financial aid for a previous passed course, once.

Developmental Education Course—Developmental Education courses are included in the computation of satisfactory academic progress. However, only up to one academic year's worth, equivalent to 30 semester hours, can be counted in the student's enrollment status for federal aid. Developmental credit hours earned in excess of 30 semester hours cannot be counted towards enrollment status for federal and state grants.

Evaluation of Satisfactory Academic Progress

To ensure financial aid applicants and recipients of financial aid are making sufficient progress both quantitative and qualitative, students' progress will be evaluated by the Financial Aid Office at the end of each semester.

Satisfactory Academic Progress Statuses

Satisfactory—Students are placed on satisfactory who meet the qualitative and quantitative measure and MTF requirements.

Financial Aid Warning—Students are placed on Financial Aid Warning the first time the student fails to meet SAP standards. Students may continue to receive financial aid for one semester on this status. No appeal is necessary. Students not meeting SAP standards by the end of the warning period will be placed on suspension.

Financial Aid Suspension—Students who fail to regain SAP during their next semester of enrollment are placed on financial aid suspension, and not eligible for Financial Aid. Students on financial aid suspension may appeal. See "Reinstating Eligibility" for additional information regarding appeal.

Financial Aid Probation—Students are placed on Financial Aid Probation when his or her financial aid is reinstated as result of an approved appeal. Students must follow and meet the conditions of their Academic Plan developed during the appeal process to remain on continued probation. See "Academic Plan" requirements for more information.

Maximum Timeframe—Students are placed on Maximum Time Frame when the 150 percent of the published length of the educational program is exceeded.

Nearing Maximum Timeframe—Students are placed in this category when 80% of the published length of the educational program is exceeded.

Notification—Students will be notified by the Financial Aid Office of his/her SAP status for financial aid by letter and/or email.

Reinstating Eligibility—Financial aid assistance can be regained when the student:

(1) Attends college and pays on his or her own without receiving federal or state aid and

meets the qualitative and quantitative components of the SAP policy. Once SAP is met by the student, financial aid, depending upon eligibility and availability of funds, will be reinstated for the beginning of the next semester of attendance. **OR**

(2) Through the Financial Aid Appeal Process. Students may appeal 'financial aid suspension' or 'maximum time frame' by completing a Satisfactory Academic Progress Appeal form, available in the Financial Aid Office and online on Mitchell's website, explaining why the student did not meet SAP standards and explain what has changed in his or her situation that will allow SAP to be met by the next SAP evaluation period. Appeals must be submitted to the Financial Aid Office with supporting documentation to verify mitigating or extenuating circumstances surrounding the appeal. Examples of mitigating or extenuating circumstances include but are not limited to the death of a family member, separation or divorce, an accident or an illness. Appeals submitted without supporting documentation will not be reviewed. The Financial Aid Committee will review appeal requests and the student will be notified by letter of the committee's decision, prior to the start of each semester. Decisions of the Financial Aid Committee are final. Students should be prepared to pay tuition and fees by the Financial Services published tuition and fees deadline. If the appeal is approved after tuition and fees are paid, students may be reimbursed based on their eligibility and credit hours enrolled.

Academic Plan—Students who appeal will be given an academic plan to follow that will put the student on track to successful program completion. Academic Plans may be individualized and may, for example, require the student to earn and maintain a minimum 2.0 semester GPA and to have a 100 percent completion rate. (Example: A student who attempts 12 credit hours and successfully completes 12 has a 100 percent completion rate (12 divided by 12 = 100 percent)). It may be as complicated as a course by course plan toward degree completion. There may be other conditions included in the academic plan depending on the student's individual situation. Students are eligible to receive financial aid as long as they continue to meet the conditions specified in their Academic Plan. Students who do not meet their conditions will be terminated and no longer be eligible for financial aid.

Questions regarding meeting Satisfactory Academic Progress (SAP) should be directed to a Financial Aid Specialist.

Return of Title IV Funds

The Higher Education Amendments of 1998, Public Law 105-244 require colleges to calculate the Return of Title IV Funds Policy when a recipient of Title IV aid completely withdraws from the college through the 60 percent point during a payment period. The institution must calculate the amount(s) of Title IV aid the student earned and return the unearned portion(s) of the Title IV fund(s) to the Title IV program(s). The institution and student will be required to return unearned Title IV funds to the Title IV programs.

Effective fall 2018, Mitchell Community College became an institution that does not require taking attendance. As result, a student's withdrawal date is:

- (1) the date the student began the institution's withdrawal process; or officially notified the institution of intent to withdraw; or
- (2) the midpoint of the period for a student who leaves without notifying the institution; or the student's last date of attendance at a documented academically-related activity, if available.

The withdrawal date determination must be made no later than 30 days after the end of the earlier payment period, or period of enrollment.

Students who stop attending class or leaves Mitchell Community College without following the official withdrawal procedures is subject to receiving a grade of "F" for each course in question. When a student receives all "F's", the student may be defined as 'unofficially withdrawn' for Title IV purposes. At the end of each semester, if a last date of attendance cannot be determined, the student is assumed to have attended 50% of the enrollment period and the Return of Title IV calculation is based on this length of attendance.

Under the October 29, 2010, final regulations for all programs offered in modules, a student is a withdrawal for Title IV purposes if the student ceases attendance at any point prior to completing the payment period, unless the school obtains written confirmation from the student at the time of the withdrawal that the student will attend a module that begins later in the same payment period.

The Financial Aid Office must determine if the student was a recipient of Title IV funds who withdrew prior to the 60 percent point and perform the Return of Title IV Funds calculation. Under this policy, the school must determine the amount of Title IV funds a student has earned and return the unearned portion. The Financial Aid Office is required to send written notification to the student informing the student of the amount owed. This notification must be sent to the student, no later than thirty calendar days after the date the Financial Aid Office is notified the student withdrew and the school must return any unearned Title IV funds it is responsible for within 45 days of the date the school determined the student withdrew.

If the Return of Title IV Funds calculation is performed and it determines that the student received less Title IV funds than the amount earned, the institution must make a post-withdrawal disbursement to the student of the earned aid that was not received. To be eligible for a post-withdrawal disbursement, the student must meet all Federal Guidelines outlined by the Department of Education.

A school must return Title IV funds to the programs from which the student received aid, in the following order:

- FPELL
- FSEOG

If applicable, funds must also be returned to the State Grant funds.

NOTE: The Return to Title IV funds policy is separate from Mitchell Community College's institutional refund policy.

Veterans Affairs

The Mitchell Community College Veterans Affairs Coordinator helps veterans and eligible family members seeking access to educational benefits provided by the Veterans Administration. The coordinator can provide clarification of Veterans Administration regulations, and certification for pay to the correct Department of Veterans Administration office.

Veterans Education Benefits

Educational assistance may be available to:

- Members of the armed forces who entered active duty on July 1, 1985, and contributed to their education under the Montgomery GI Bill
- Members of the armed forces who have served at least 90 days since September 11, 2001
- Eligible members of the Selective Reserves and the National Guard
- Service people who contributed toward their education through the Veterans Education Assistance Program while on active duty
- Individuals discharged from active duty for a service-connected disability
- Sons, daughters, wives and husbands of deceased or totally and permanently disabled veterans whose death or disability happened while in military service

Eligibility

Individuals enrolled in an approved program at Mitchell will be eligible to receive Veterans Education Benefits if they qualify. The student must have a completed admissions file, follow their program plan and maintain satisfactory academic progress, attendance and conduct.

How to Apply

- Apply for education benefits online at www.gibill.va.gov
- Complete the Mitchell Community College application for admission
- Submit official copies of transcripts or records from high schools, or acceptable high school equivalency scores and official transcripts for all post-secondary schools attended.
- Submit official transcript from Joint Services for military credit. Request transcript at <https://jst.doded.mil/smart/welcome.do>
- Provide the Admissions and Records Office with service schools or tests which may be evaluated for credit
- Contact the Veterans Coordinator to schedule an appointment to complete required paperwork for certification

Military Service Experience

Veterans may receive credit for USAFI courses and for service school training where appropriate to the student's program and where a comparable course is offered by Mitchell. USAFI courses are evaluated based on the catalog of the USAFI.

School Service Training is evaluated based on "A Guide to the Evaluation of Educational Experiences in the Armed Services," published by the American Council on Education. Credit is allowed for physical education to veterans upon presentation of discharge or separation papers appropriate to the veteran's course of study. Final acceptance or rejection of the credit lies with Mitchell. Credit for prior military courses and service is evaluated from the Joint Services Transcript.

Payment

Mitchell does not participate in the Advance Payment Program. Recipients of Veterans Education Benefits must pay all tuition and fees at registration, except for those veterans receiving 100 percent rate of Chapter 33 (Post 9/11) benefits. Students receive payments directly from the Department of Veterans Affairs for the period the veteran is in attendance in an eligible program. Veteran students not attending 12 or more credits in term will receive prorated funds. Veteran students registered for all online classes may only be eligible for half of the monthly stipend.

Attendance

Recipients are paid by attending classes as scheduled. A student must notify the Veterans Affairs Coordinator for any reason for absences. If a student withdraws from class, they must notify the Veterans Coordinator immediately to avoid overpayment.

- Students receiving either the Montgomery GI BILL Active duty or Selected Reserve MUST also verify their enrollments monthly to receive payments. This verification can be done either by using the WEB Automated Verification of Enrollment (WAVE) application at www.gibill.va.gov or by using an automated telephone service (IVR) at 1-(877) 823-2378 and following the prompts.
- You are expected to attend and participate in class meetings
- Students who drop or withdraw from class must notify Mitchell's Veteran Affairs Coordinator of this change. Benefits will be reduced for the remainder of the semester.
- Tuition for dropped classes may be required to be paid to Mitchell.

Exclusions

The following will not be used in calculating hours for payment purposes:

- Audited courses
- Independent study courses
- Credits by exam
- Courses taken outside the curriculum
- Courses for which transfer credit has been awarded
- Repeated courses where the student received a passing grade
- Study abroad
- Courses not counted toward graduation—Students can be paid for remedial courses as determined by College Placement Exams
- Emporium Model Developmental Math Courses

Satisfactory Academic Progress

Students receiving veterans' benefits through the Department of Veterans Affairs must meet the requirements for Satisfactory Academic Progress defined as a cumulative 2.0 grade point average (CGPA). Students whose CGPA falls below 2.0 at the end of a term will be placed on Academic Probation 1. Students on Probation 1 must meet the minimum Term 2.0 GPA or the student will move to Probation level 2. If the student fails to maintain the 2.0 Term GPA while on probation 2, benefits will be suspended due to unsatisfactory progress. Satisfactory progress towards completion of training objective can be met if the student on probation successfully completes each term with a GPA 2.0 or higher.

U.S. Army Reserve Officers Training Program

Mitchell offers a cooperative program administered by Davidson College. Detailed information on this program is available from the Department of Military Science, Davidson College, Davidson, N.C.

Continuing Education—High School Credential Preparation/High School Equivalency Diploma (HSE)

Mitchell's High School Credential Preparation/High School Equivalency Diploma (HSE) is directed by the N.C. Community College System and the State Board of Community Colleges. To ensure the programs comply with standards established for the Department of Veterans Affairs, GI Bill education benefits contained in CFR 38, 21.4253 and 4254, this institution administers the following procedures:

- This institution complies with requirements outlined in the Testing Procedures Manual.
- Records for clock-hour programs and semester-hour programs are complete and adequate to ensure compliance with the Department of Veteran Affairs reporting requirements (attendance, progress and rate of pursuit).

Standards of Progress

For students receiving Veterans Education Benefits while enrolled in this program, progress will be measured monthly and be measured against State or institutional test results (minimum grade equivalent to 70 percent). Student's progress will be classified as satisfactory or unsatisfactory at the end of the month. Students will be placed on probation when progress is determined to be unsatisfactory.

Probation

The following probation standards will be administered for students eligible for Veteran Education Benefits:

- For attendance, two-month probation, maximum
- For standards of progress, two months maximum probation for clock-hour or semester-hour program

If a student has not met standards by the end of probation, the student will be decertified and lose benefits.

Recertification

Students may be recertified only after supervisors determine conditions have returned to a satisfactory status. If benefits are interrupted two times, the student may not be recertified.

Military Tuition Assistance (TA)

The Financial Aid office determines if the student withdraws prior to the 60% of the term and received Federal Tuition Assistance. If the withdraw is prior to the 60% point, a return of funds calculation is completed and any unearned Tuition Assistance is refunded to the Government. If the withdraw is a result of documented "Active Duty Orders" then all TA funds will be returned and the student will be not be charged tuition for the term. Any returned funds must be refunded within 45 days of the withdraw notification through the business office.

Active Duty

At the request of the student, Mitchell Community College shall grant a full refund and registration fees to military reserve and National Guard personnel called to Active Duty or Active Duty personnel who have received temporary or permanent reassignments as a result of military operations that make it impossible for them to complete their course requirements: and Buy back textbook through the colleges' bookstore operation to the extent allowable under the college's buy back procedures. Documentation of Active Duty Orders are required at the time of withdraw.

Priority Enrollment for Student Veterans

Currently enrolled student veterans are allowed a "Priority Registration" period. This policy allows the current student veteran to register for classes earlier than other students.

Veterans Services

Mitchell Community College is honored to welcome veterans, reservists, and active duty students to our campuses. Our Veterans Support Team is available to assist you with a variety of services including: Academic Advising, VA Education Benefits (GI Bill), Financial Aid, Disability Accommodations, and acclimation to college. For assistance with Admissions, Advising, and Disability Accommodations, contact the Academic Advising Center in Room 103 of the Student Services Center or (704) 878-3242. For assistance with VA Education Benefits and Financial Aid, contact the VA Coordinator in the Student Services Center, or call (704) 878-3295.

Note: Students who qualify to receive education benefits from the Department of Veteran Affairs and Financial Aid are asked to attend an orientation session and communicate with their instructors at least once a week. Please see the School Certifying official for more information regarding In-state tuition. Veterans who have separated from the service within the last three years may qualify for Section 702 of the Choice Act.

Academic Policies

Semester System

Mitchell operates on a three-semester system. Credit of one semester hour is awarded for each:

- 16 hours of class work
- 32 or 48 hours of laboratory work
- 48 hours of clinical practice
- 160 hours of work experience such as cooperative education, practicum, and internships

Registration

All students must register at the beginning of each semester of attendance. Students may not attend courses for which they are not officially enrolled. Formal completed enrollment is based on the official class rosters generated by the Office of Student Records after registration.

Course Load

A student registered for 12 semester hours is considered full-time. These requirements are the minimum in order to receive full VA benefits. The normal course load for an A.A., A.S., or A.F.A. degree is 16 credit hours per semester. The normal course load for A.A.S. technical degrees is 18 credit hours per semester. Students may not register for more than 21 credit hours without approval of the Vice President for Instruction. Approval to carry more hours will be based on past academic achievement. Students who are employed while attending college should consult with their faculty advisor to determine an appropriate course load.

Change of Schedule

Changes in a class schedule after the last day of drop/add must be made in the Office of Student Records and approved by the Registrar. The last day that courses may be added is stated on the Academic Calendar. Students wishing to drop a course must complete the drop form, which is processed through the Academic Advisor and the Admissions and Records Office.

Classification

Students are classified as freshmen from initial enrollment until they earn 30 semester hours credit. After that, they are classified as sophomores. For student activities purposes, students must have been enrolled for a minimum of two semesters before they are classified as sophomores.

Attendance Policy

Effective for Fall 2018, Mitchell Community College is a **non-attendance taking institution**. However, Mitchell will collect attendance information from faculty through the census date (10% point) of a class session as required by the North Carolina Community College System.

Faculty are required to submit attendance rosters, indicating those students who have either never attended class(es) or have never participated in the course (i.e. by submitting assignments, completing a syllabus quiz, or attending an in-class meeting). Each Faculty member is required to communicate attendance expectations to their classes. These attendance expectations should be included in the course document and faculty members' syllabus for each course.

Attendance Expectations

Attendance begins on the first scheduled day of class, even for students who register late. All students are expected to attend and be on time for all classes and corresponding sessions (labs/clinics/etc.).

In order to remain enrolled in an *online class*, a student must attend class (verified by completion of a class assignment) on or before the class census date. For *seated and hybrid classes*, a student must be physically present in class on or before the class census date. **Being absent does not relieve the student from completing class requirements.**

The Instructor's policy on make-up work must be clearly stated in the class syllabus. Obtaining and making up missed work is the student's responsibility.

Attendance Exceptions

Attendance will still be required for High School Students (Early College and Career & College Promise), programs requiring licensure (BLET and Cosmetology) and Veteran students. For veterans to be eligible for benefits, their last day of attendance in each class must be monitored.

Census Date Policy

In order to remain enrolled in a course, a student must attend class (verified by completion of the class assignment) on or before the class census date. For seated classes, a student must be physically present in class before the class census data. Students enrolled in a hybrid class or an online class must take the census assignment.

If a student does not meet the Census Date requirement, the student must be reported as a no-show for the class. Students reported as a "no-show" are considered withdrawn from the class; a grade of "NS" will be reported on the students transcript.

Withdrawal Policy

It is the student's responsibility to withdraw from a class by the withdrawal date noted on the College's Academic Calendar.* Failure to withdraw by the required date **may** result in receiving a grade of "F" for the course(es). Students are encouraged to consult with their instructor and advisor prior to withdrawing from a class.

For students in violation of the College's Code of Conduct, the Vice President for Student Services reserves the right to issue an administrative withdrawal from one or all classes.**

* *The Academic Calendar can be found on the College website or on Page 7 of the 2018-2019 Mitchell Community College Catalog.*

** *The Student Code of Conduct can be found on the College website and in the 2018-2019 Student Handbook.*

Grading System

A unit of credit is measured in semester credit hours. For the credit value of a given course, see the course description in this catalog.

Grade Point Average

The grade point average is calculated by dividing the total number of quality points earned by the total number of semester hours attempted, including both courses passed and failed, unless the courses have been repeated. When a course is repeated, the highest grade earned will be included in calculating the GPA. All courses attempted will be shown on the official transcript. A "C" average is required for graduation. Following is a list of letter grades—

Letter Grade	Description	Quality Points
A	Excellent	4.0
B	Good	3.0
C	Fair	2.0
D	Pass	1.0
F	Fail	0.0
I	Incomplete	
CE	Credit by Examination	
NC	No Credit (student does not pass credit by examination)	
W	Withdrawal	
AU	Audit (no points)	
TR	Transfer Credit	
NS	No Show (student registered but did not attend at least one class)	
#	Academic Forgiveness (grade not computed in grade point average)	
R	Repeat DMA course	
P	Pass DMA course	

For an Incomplete, the student must satisfactorily complete the work within the next semester. In certain exceptions, the instructor may approve an extension of up to one year from the closing date of the course. If the "I" has not been removed by the designated date, the student will receive a "F." An incomplete grade may result in students being removed from a class(es) for an upcoming semester that requires a completed grade to satisfy prerequisite requirements.

Grade Reports

Mitchell keeps records of progress and furnishes final grades to all students at the end of each semester through students' WebAdvisor accounts.

Grade Appeal

The course instructor is responsible for determining the grade a student earns for the course. The grade determination should be based on the course grading policy as detailed in the course syllabus. Occasionally, a student may disagree with the final course grade as assigned by the instructor. In those cases, the student should follow the steps as outlined below:

1. The student should meet with the course instructor and discuss the grade. This meeting must take place within 30 calendar days of the initial assignment of the grade.
2. If the student still believes the grade has been incorrectly assigned then the student should meet with the instructor's curriculum division dean. After confirming that an effort has been made between student and instructor to reach an agreeable outcome regarding the grade in question, the dean will:
 - a. Listen to the student's explanation of why the student thinks that the grade is in error,
 - b. Talk with the instructor to confirm that the instructor can either demonstrate the grade was correctly assigned or to confirm that, upon reexamination, a grade change is in order,
 - c. Communicate to the student the result of the dean/instructor discussion. If the student is dissatisfied with the outcome, a meeting will be arranged to include the instructor, the student and the dean to determine whether or not an agreeable outcome can be reached.
3. If the student remains dissatisfied with the outcome, the student should state the reason(s) that the grade is believed to be in error in a written appeal addressed to the Vice-President for Instruction. This written appeal must be submitted within ten calendar days after the meeting between the student, instructor, and dean. Upon receipt of a written appeal, the Vice President for Instruction will convene the Grade Appeal Committee. The Grade Appeal Committee will be comprised of one faculty member from each of the four curriculum divisions, to be chosen by the full-time faculty in their respective divisions. For each appeal, the committee will select one member to serve as non-voting chair and recorder for the appeal.
4. The student and instructor will be given an opportunity to address the committee and to answer questions. After reviewing all relevant information presented, the committee will render a decision reflecting the popular opinion of the committee. The committee will report its decision to the Vice President for Instruction who will notify the student and the instructor of the outcome.
5. The decision of the Grade Appeal Committee will be final.
6. As per procedure, should any portion of the process result in the need to change the grade the instructor will submit an Authorization to Change Grade form.

Academic Forgiveness

A student may request Academic Forgiveness for courses in which no credit was earned during that last enrollment. The request must be made through the student's academic advisor after a student has completed at least 12 credit hours. Forgiveness of past "no credit" may be granted one time only. The Academic Forgiveness Policy consists of the following:

1. All failing grades, i.e., F, WF, or I, will not be counted in calculation of the Grade Point Average (GPA).
2. All passing grades, i.e., A, B, C, D, for all courses required in a student's present curriculum will count toward graduation requirements unless other policies supersede this policy; however, the grades will not be used to calculate the GPA.
3. Prior to implementation of the Academic Forgiveness Policy, the student must enroll in the college and complete a minimum of 12 consecutive semester credit hours with a minimum GPA of 2.00. The 12 credit hours must be hours that are included in the calculation of GPA.
4. For some programs, there may be additional or specific requirements related to admissions criteria, i.e. Allied Health programs.
5. The student's GPA will be calculated based upon the time of re-enrollment and all requirements being met.

6. Grades for all Mitchell courses will be on the student's transcript with the appropriate indication of calculation of the student's GPA.

Note: Students planning to transfer to another college or university are cautioned that the receiving institution may use all grades earned in computing grade-point averages for admission or other purposes. The application of this policy will not affect the Financial Aid Satisfactory Progress measurement.

Steps:

1. Student enrolls and achieves a minimum GPA of 2.00, with successful completion of at least 12 hours taken consecutively.
2. Student fills out a formal written request form and submits to his or her academic advisor.
3. The form is approved by the division dean and then sent to the Director of Student Records/Registrar.
4. The Director of Student Records/Registrar evaluates the transcript and determines appropriate courses to be included in the forgiveness process.
5. Student is notified by a letter from the Director of Student Records/Registrar about the outcome of the process.
6. A copy of the evaluation is included in the permanent student record and reflected in the student's transcript.

Course Examinations for 16-week Sections

The exam schedule for 16-week sections is published by the Director of Student Records/Registrar. All exams and/or final projects are required to be held during the published exam hours.

Dean's List

The Dean's List is published at the end of each semester and is based on the following criteria—

Full-Time Dean's List applies to any student enrolled for at least 12 semester hours of 100 and 200 level courses and earning a grade point average of 3.5 or better with no grade below "C"

Part-Time Dean's List applies to any student enrolled for at least six semester hours of 100 and 200 level courses, but less than twelve, and earning a grade point average of 3.5 or better with no grade below "C."

Note: Developmental classes are not included in calculation of GPA.

Satisfactory Academic Progress

To be considered in good academic standing and making satisfactory academic progress toward a degree, diploma, or certificate, a student must maintain a cumulative grade point average (GPA) of 2.0 or higher.

Total hours attempted are used in the computation of the overall cumulative GPA. This includes both passed and failed courses, with the exception of courses that have been repeated. For repeated courses, only the highest grade earned will be included in the calculation of the grade point average.

Academic Probation

Since 2.0 is the minimum cumulative grade point average (GPA) required to graduate, curriculum students who fail to maintain a cumulative 2.0 GPA at the completion of any semester will be placed on academic probation for the following academic term. The Director of Student Records/Registrar will notify students and their advisors by college email or letter of probationary status and will advise those students to make an appointment with their academic advisor or, if a Special Credit student, to make an appointment with a counselor.

Academic Suspension

A student who does not maintain a cumulative GPA of 2.0 or above for two consecutive semesters will be placed on academic suspension. A suspended student is prohibited from enrolling in the College until the student has petitioned the Academic Review Board to receive permission to re-enroll.

Academic Re-Instatement

Suspended students seeking readmission must petition the Academic Review Board prior to the beginning of the semester. This written statement should include the reasons the student would like to be admitted, his or her work schedule, proposed course load, educational goals and any other information that might provide an explanation of the circumstances that led to the academic suspension.

The Academic Review Board will review the letter and any other supporting documentation submitted by the student and will make its decision. Re-enrollment may be contingent on the student taking specific courses or activities as required by the Academic Review Board. The sole intent of the Board will be to provide the student the greatest possible opportunity for academic success. Petitions for reinstatement should be e-mailed to ARB@mitchellcc.edu. Petitions may also be delivered, in person, to Students Services at either campus.

Important Note for Students Receiving Financial Aid: The Academic Review Board can grant permission to re-enroll but does not make decisions regarding financial aid eligibility. Students who have been granted permission to re-enroll will need to contact the Financial Aid Office to discuss the status of their financial aid.

Course Requirements

There are prerequisite and co-requisite requirements for selected courses. This is to ensure that students have adequate preparation to successfully complete the course.

Prerequisite and Co-Requisite Waiver Policy

Any student wishing to enroll in a course for which the student doesn't have the appropriate co- or pre-requisite coursework must satisfy the course instructor or area coordinator that she/he has the necessary knowledge or skills required for admission to the course. Further, the student will be made aware that the lack of the appropriate requisite course(s) may affect the student's performance in the course for which the requisite(s) exist. In order for the student to be registered in the course, the appropriate division dean must enter a requisite override on the student's record. The dean will electronically note who approved the waiver and the justification.

Credit by Examination

Students whose special knowledge/skills qualify them to accelerate in their studies and who are currently enrolled at Mitchell may receive credit by examination. To receive credit by examination, a student must demonstrate convincing evidence of competency in knowledge and/or skills in the specific course outcomes. A written, oral, and/or performance examination will be developed and administered by an instructor who is a subject matter expert in the specific course discipline. The examination is subject to the approval of the division dean/director. Not all courses offered at Mitchell allow credit by examination. Students may challenge up to 20 percent of the courses in any program of study. Students may not challenge a course in which they are currently enrolled or in which they have received a grade of "D" or "F." A course may be challenged through credit by examination only once. A student who successfully completes a credit by examination will be awarded a grade of "CE" and credit hours for the course. Quality points will not be awarded; therefore, the grade is not included in the calculation of grade point average. A grade of "C" or better must be earned on the exam to receive credit. If a grade less than a "C" is earned, the student will receive a grade of "NC" (no credit awarded). Credit by exam hours cannot be used in calculating enrollment status for payment of Financial Aid or Veteran Educational Benefits. Mitchell Community College cannot guarantee the transferability of "CE" grades to other institutions.

Students requesting this type of credit should use the following procedure:

- Check with the course instructor for approval to attempt the credit by examination
- Obtain a Credit by Examination approval form. This form requires signatures of the administering instructor and the appropriate Curriculum Division Dean.
- With the appropriate signatures, take the form to Student Services. The Director of Student Records/Registrar will determine payment required.

- Pay any required tuition and present the receipt to the Director of Student Records for final signature.
- Once all signatures have been obtained, present the Credit by Examination approval form to the instructor administering the exam.
- After the exam, the instructor will notify the Records Office of the results. If successful, a grade of CE will be entered on the transcript. If unsuccessful, a grade of NC will be recorded.

Auditing Classes

Classes may be audited with permission of the instructor: however, no class may be audited more than once. The audit may occur either before or after taking the course for credit. Priority will be given to regular credit students. Any class with more than 50 percent audits may not be taught. No one will be allowed to audit an independent study or independent studio course.

Participation in class discussion and examinations is at the option of the instructor. No credit by examination can be allowed for courses that have been audited. A grade of "AU" will be recorded with no credit hours or quality points awarded. Registration or changes in registration for audits must be completed during the regular registration or change periods. Regular tuition and fees will be charged.

Auditing Classes for Senior Citizens

Senior citizens age 65 or older as of the first day of the course session may audit classes free of tuition. Local fees, books, and required supplies are the responsibility of the student to pay. Interested applicants must apply for admission and self-identify with the Advising office. A student who audits a course section shall not displace students enrolling or registering to receive a grade in the course section. Therefore, registration for audit status can occur after the regular registration period for the session has ended. "All other rules regarding auditing a class also apply to senior citizens. See "Auditing Classes" above."

Course Repeats

If a student repeats a course, the highest grade is recorded as the final grade and will be the only grade used in calculating grade point averages or hours towards graduation. All courses attempted will be shown on the official transcript. If a course in which the student received an "F" is not offered during the remainder of that student's program, an equivalent course may be substituted if approved by the Vice President for Instruction. While Mitchell only counts the highest grade, other institutions may use both grades to arrive at a grade point average for transfer.

Course Substitutions

No course substitutions may be made and no graduation requirements may be waived without recommendation from the division dean and the Vice President for Instruction.

Transcripts

A student can request to have an official transcript sent to an institution or employer by completing a transcript request. No official transcript will be released until all financial obligations to Mitchell have been met.

Mitchell Essential Learning Outcomes (MELOs)

The faculty at Mitchell Community College believe that students should demonstrate the following Mitchell Essential Learning Outcomes (MELOs):

1. Construct sustained, coherent arguments, narratives, and/or explications of technical processes.
2. Compute accurate and relevant calculations and/or present valid interpretation of quantitative information.
3. Interpret personal, social, and/or global issues/ideas from different perspectives.
4. Assemble evidence relevant to a problem/question and/or evaluate the significance of a problem/question and/or apply evidence to analyze a problem/question.

To ensure that our students attain these MELOs by graduation, Mitchell Community College requires that students:

- Complete the general education core requirements listed in the students' major program of study (see these courses/skills listed in the General Catalog/Student Handbook under the headings of "degree program") and
- Reinforce these goals through a series of courses and learning experiences encountered by our students from their freshman experiences up to their graduation from the College.

Graduation Requirements

The following requirements apply to programs. Some divisions may have additional requirements.

- Students in associate degree programs are required to make satisfactory scores on the reading placement test or successfully complete reading requirements.
- Students may graduate under the catalog upon which they enter or any subsequent catalog in effect while they remain in continuous enrollment. If a student changes from one program to another, the student must graduate under the catalog in effect at the time of the change or any subsequent catalog while the student remains in continuous enrollment. Continuous enrollment excludes summer semester.
- Students must earn a cumulative grade point average (GPA) of 2.0 and must receive a passing grade in all required courses to be eligible for graduation.
- Students are notified of graduation eligibility by the Office of Student Records during the last semester of enrollment. Students completing during the proceeding Summer semester who wish to participate in the May commencement must register for summer courses and self-identify with the Office of Student Records by the advertised deadline.
- A minimum of 25% of the credits required for a degree, diploma or certificate must be earned at Mitchell.
- To be eligible for graduation, the student must fulfill all financial obligations to Mitchell.

Graduation Honors

Students with at least 50 percent of their curriculum requirements completed at Mitchell are eligible for honors at graduation.

High Honors—Students who have a cumulative grade point average of 3.75 or greater.

Honors—Students who have a cumulative grade point average of 3.50 to 3.74.

Certificate programs do not qualify for honors.

Graduation Marshals

Freshmen enrolled in a program of study and who have the highest grade point averages and have earned a minimum of 12 semester hours credit are selected marshals.

Academic Honesty

Mitchell is committed to academic excellence which strengthens pride, integrity, and self-realization. Such acts as plagiarism (presenting the words, graphics, structure, or ideas of others as if they were one's own without proper acknowledgement or documentation) and taking answers from another student's test paper are subject to disciplinary action. Any form of academic dishonesty is unacceptable and if detected could result in disciplinary action.

State Authorization

All U.S. states require post-secondary educational institutions to be legally authorized to provide post-secondary educational instruction in their states. Many of these state laws and regulations also apply to online, distance, and correspondence educational instruction offered in that state.

Mitchell Community College is working to achieve compliance as established in HEOA 600.9 (c).

If an institution is offering postsecondary education through distance or correspondence education to students in a State in which it is not physically located or in which it is otherwise

subject to State jurisdiction as determined by the State, the institution must meet any State requirements for it to be legally offering postsecondary distance or correspondence education in that State. An institution must be able to document to the Secretary [of Education] the State's approval upon request. (Authority: 20 U.S.C. 1001 and 1002)

Mitchell Community College desires to resolve student grievances, complaints and concerns in an expeditious, fair and amicable manner. Students residing outside of the State of North Carolina while attending Mitchell who desire to resolve a grievance should follow the College's Student Grievance Procedure that is available on the college website as well as in the Student Services Centers located on both the Mooresville and Statesville campuses.

If a complaint cannot be resolved after exhausting the institution's grievance procedure, the individual may file a complaint with the following office: Post-Secondary Education Complaints, c/o Assistant Director of Licensure and Workforce Studies, University of North Carolina General Administration, 910 Raleigh Road, Chapel Hill, NC 27514, telephone (919) 962-4558, studentcomplaint@northcarolina.edu. The individual may contact UNC General Administration for further details.

Students residing out of state and taking classes online at Mitchell Community College may choose to file a complaint with their state of residence. Please visit the Distance Learning section of the college website to view a complete listing of state authorization agencies.

Support Services

Academic Advising

New students have a Student Services Advisor for their first two semesters of college. Student Services Advisors promote advisees' self-efficacy through success coaching and proactive interactions, review advisees' programs of study, and instruct on the navigation and use of WebAdvisor, including course registration. Advisors also inform advisees of college processes and support services, and help them transition from first-year advising to faculty advising. The Advising Department is located in the Eason Student Services Center on the Statesville Campus. Advising Offices are also at the Mooresville Campus in the Student Services Department.

Faculty Advisors

Students who are seeking degrees in certain programs (A.A.S., Certificates, Diplomas, A.F.A., and A.E.) are assigned to both a faculty advisor in their chosen area of study and to Student Services Advisor upon receiving student status. Students who are in transfer programs specific transfer programs (A.A. and A.S.) are assigned a faculty advisor when their transition from their Student Services advisor.

Students meet with their faculty advisor to review educational goals, update career plans, make course selections, and complete change of major forms. Faculty advisors are also available to provide academic support and guidance to their advisees during non-advising periods.

When making decisions about course selection, students need to be familiar with the Mitchell Catalog and are responsible for making final decisions on academic matters. To locate your faculty advisor's contact information, log into your AVISO account.

Counseling

While Mitchell Community College does not provide personal counseling, students experiencing difficulties and in need of assistance are encouraged to communicate with their assigned Faculty Advisor or Student Services Advisor who can assist them with connecting to social supports or identifying community partners who treat mental health and substance abuse issues. Students, faculty, and staff can learn more about community resources by visiting the Student Services section on the website and viewing Community Resources. If you or someone you know is in crisis, you can contact Partners Behavioral Healthcare at 1-888-235-HOPE (4673) for assistance. Staff are available at this number 24 hours a day, seven days a week.

Disability Support Services

The Mission of Disability Services is to lead the Campus Community in the creation of an inclusive learning and working environment; and facilitate access, discourse, and involvement through innovative services, programs, and partnerships. Students should contact Disability Services as soon as possible before the first day of class to determine and request accommodations. Students seeking assistance must provide documentation that includes relevant medical, psychological, educational and/or emotional diagnostic tests or evaluations that verify the need for accommodation. Students will need to meet with Disability Services to complete an accommodation plan each semester. The Coordinator of Disability Services office is located in the Eason Student Services Center, Advising Department on the Statesville Campus. Disability Services offices hours are by appointment on both the Statesville Campus and the Mooresville Campus. Disability Services provides reasonable academic accommodations for students with a documented disability under the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973.

Veterans Services

Mitchell Community College is honored to welcome veterans, reservists, and active duty students to our campuses. Mitchell Community College is available to assist you with a variety services including: Academic Advising, VA Education Benefits (GI Bill), Financial Aid, Disability Accommodations, and acclimation to college. For assistance with Admissions, Advising, and Disability Accommodations, contact the Academic Advising Center in Room 103 of the Student Services Center or (704) 878-3242. For assistance with VA Education Benefits and Financial Aid, contact the VA Coordinator in the Student Services Center, or call (704) 878-3295.

Work-Based Learning (WBL) Program

This academic program integrates classroom study with practical experience in business, education, and industry. Through this experience, students practice the theories and principles related to their major course of study in an actual work environment. The Work-Based learning work experience occurs

concurrently with academic studies, may be paid or unpaid, and awards academic credit. A maximum of six credit hours may be earned through this program. One credit hour equals 160 hours of work experience per semester. Credit is awarded based on evaluations and assignments from the student's supervisor at work, faculty advisor, and the Work-Based Learning office.

Eligibility

To be accepted, students must:

- Be enrolled in a Mitchell curriculum or degree program in which Work-Based Learning is allowed
- Have a minimum 2.0 GPA
- Be recommended by the student's faculty advisor or program faculty
- Have successfully completed at least nine semester hours of college-level work in their major area of study including any specific courses required by the program

Currently Employed Students

Students may qualify to receive Work-Based Learning academic credit if they are already employed provided they:

- Are acquiring significant new skills or knowledge related to their academic field of study
- Are developing recently-learned skills or applying recently-learned knowledge related to their academic fields of study
- Are receiving increased levels of responsibility related to their academic field of study

For information on how to participate in Work-Based Learning as a student, please speak with your advisor. For information on how to participate in Work-Based Learning as an employer, please call (704) 978-5441.

Bookstore

The Mitchell Community College Bookstore is located in the Montgomery Student Union. The Bookstore offers curriculum textbooks as well as Continuing Education textbooks for classes offered at Mitchell Community College. The Bookstore's website is available online for inquiry and purchasing. The electronic Bookstore provides the title, author, edition and price of the textbook(s) needed for each course. The information is provided online each semester.

For ordering textbooks using the electronic Bookstore, a credit card is required for payment. There is the option for textbooks to be shipped UPS, to be picked up at the Statesville Campus Bookstore or at the Mooresville Campus.

Students planning to participate in the graduation ceremony may purchase a cap, gown and tassel set at the Bookstore. The Bookstore also offers announcements, class rings, and degree frames for graduates to purchase.

The Bookstore has available electronic calculators, supplies, and a variety of Mitchell Community College clothing. Required kits for designated programs are available as well as providing the opportunity for a student to purchase a laptop.

Library

The J.P. & Mildred Huskins Library, located on the Statesville Campus, and the Mooresville Campus Library, provide resources which support and enhance instructional programs at Mitchell Community College. Library services include reserve and reference assistance, book selection, group or individual library orientation, interlibrary loan, Internet access, and copy services. Students have access to online resources, a computer lab and a group study room. For more information, contact the Huskins Library at (704) 878-3271 or the Mooresville Campus Library at (704) 978-1356.

Distance Learning

Mitchell Community College offers several distance learning opportunities for students. Distance education is an educational process in which the instruction (learner to learner interaction, instructor to student interaction, and learner to content interaction) in a course occurs when students and instructors are not located in the same area. These classes provide students with more flexibility than a traditional classroom setting. Students are expected to a) communicate via Mitchell Community College Office 365 Email and follow appropriate netiquette, b) check their Mitchell Community College email, c) have reliable access to the Internet, d) use Internet browsers effectively, e) create and save files in commonly used word processing program formats such as docx, PDF, rich text, etc. f) upload files, images and videos, and g) have access to course specific software. Students enrolled in online courses receive the same credit, must satisfy the same course prerequisites, experience the same course content, and are assessed the same tuition as traditional students. For online courses, all the course content is published within the learning management system, Blackboard Open LMS, and course communication is through the learning

management system, Blackboard Open LMS, and Mitchell Community College Office 365. Some online classes may have an optional online orientation or an optional face-to-face orientation. Students may have to come to campus to purchase books and/or to pay tuition. Instructors of Internet based courses are available to students via email, telephone, or by scheduled appointments.

For hybrid courses, instructional delivery is a combination of face-to-face sessions and online instruction through the learning management system, Blackboard Open LMS. The face-to-face sessions vary from minimal contact to over fifty percent required on-campus meetings. Specific requirements will either be posted in the schedule listing on WebAdvisor or communicated in the course syllabus.

Note: Students who qualify to receive education benefits from the Department of Veteran Affairs and Financial Aid are required to attend an orientation session and communicate with their instructors at least once a week. The distance learning instructor's signature is required on the Veteran Attendance Sheet which is turned in to the Assistant Financial Aid Director every three weeks.

North Carolina Information Highway

The Information Highway network brings together groups of students at distant sites, or students in the information highway room can receive instruction from another site that is equipped with the same technology. This is a traditional class in every respect except that the instructor is teaching from another site, or Mitchell Community College may be broadcasting the class to other sites. Students interact with other students and with the instructor at a distance using microphones, video cameras, and television monitors.

The MIND Center for Learning and Teaching

The MIND Center provides quality academic support services and tutoring that enable students to:

- Develop, enhance, and maximize their learning skills
- Improve their understanding, achievement, and enjoyment of course work
- Become proficient in using computer software and equipment
- Employ successful learning strategies

The MIND Center offers free peer tutoring in most courses by appointment. Centers are located in both Statesville and Mooresville.

Developmental Education Program

Founded on the "open door" admissions philosophy, Mitchell provides developmental education courses to ensure that students at all ability levels may be successful learners. Developmental education courses promote the cognitive and affective growth of students at all levels of the learning continuum, thereby ensuring educational opportunity for each post-secondary learner. In addition, developmental education courses ensure high academic standards by enabling learners to acquire competencies needed for success in mainstream college courses.

N.C. High School to Community College Articulation Agreement

Mitchell formally identifies, recognizes and awards college credit for courses in the N.C. High School to Community College Articulation Agreement if the college course for which credit is being sought is listed in this catalog. To receive credit, a student must meet both the grade and CTE post-assessment score requirements. Mitchell must receive official documentation of a student's eligibility from the student's high school. For a complete list of the courses and requirements, please contact your high school or a student services advisor at Mitchell.

Student Rights and Responsibilities

Mitchell Community College strives to offer social and cultural activities that build well-rounded persons as well as a comprehensive program in academics. Students are expected to conduct themselves in accordance with federal, state, and local statutes. Mitchell will cooperate with the respective law enforcement agencies in their enforcement. The Code of Student Conduct and Student Appeals procedure is detailed in the Student Handbook, which is available online to each student enrolled in a curriculum program or course.

Student Responsibility

Course selection and a field of study should be considered carefully by the student with the support of student services advisors, academic advisors, administrators, faculty and staff. The student is responsible for his or her persistence in pursuing a program of study to completion and for planning entry into a career or transfer to a senior institution.

Student Records and Privacy Rights

Mitchell must maintain accurate and confidential student records and must recognize the rights of students to have access to their educational and personal records in accordance with existing College policy and the Family Educational Rights and Privacy Act (FERPA). College officials responsible for the proper maintenance of educational records include the Director of Admissions/Registrar and the Vice President for Student Services. FERPA provides safeguards regarding the confidentiality of and access to student records. Students and former students have the right to inspect and review their official records and to request a hearing if they challenge the contents of these records. No records shall be made available to unauthorized personnel or groups outside Mitchell without the written consent of the student involved, except to the extent that FERPA authorizes disclosure without consent. Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by Mitchell to comply with the requirements of the Act. The name and address of the Office that administers FERPA is Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-5901.

"Educational Records" include files, documents, and other materials, which contain information directly related to students. The term "educational records" does not include the following:

- Records and documents of institutional personnel which are kept apart from educational records.
- Records on the student which are made or maintained by a physician, psychiatrist, psychologist, counselor, or other recognized professionals or paraprofessionals acting in their official capacity.
- Financial records on the parents of the student.
- Records of instructional, supervisory and administrative personnel kept in their sole possession provided they are "not accessible or revealed to any other person except a substitute."

Release of Student Educational Records

The following "Directory Information" may be made available to the public by Mitchell without the student's written permission unless the student notifies the Vice President for Student Services in writing by the third week of the semester that such information concerning themselves is not to be made available.

- Student's name, address, e-mail address, and telephone number
- Major field of study or program, club and sport activities
- Dates of attendance, degrees, diplomas, honors, or awards received and the most recent previous educational institution

School officials who demonstrate a legitimate educational interest will be permitted to look at the official student file for a particular student. School officials include those employed by Mitchell in an administrative, supervisory, academic or research, or support staff position; a person or company with whom Mitchell has contracted as its agent to provide a service instead of using Mitchell employees; a person serving on the Board of Trustees; or a student serving on an official committee or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her responsibilities for Mitchell.

Requests for confidential information shall not be honored without proper written consent. The

written consent must specify the records or the specific data to be released and to whom it is to be released, and each request must be handled separately. Exceptions to this policy are:

- Requests for confidential information will be honored without prior consent of the student in connection with an emergency.
- Official requests in connection with the audit and evaluation of federal or state supported programs or in connection with enforcement of federal or legal requirements which relate to such programs.
- An official order of a court of competent jurisdiction.
- Subpoena. (Students will be notified immediately by registered mail that their records are being subpoenaed.)
- Persons or organizations providing financial aid to the student or determining financial aid decisions.

Services to Individuals with Disabilities

Mitchell operates programs, activities, and services to ensure that no qualified individuals with disabilities are excluded from participating in, denied the benefit of, or subjected to discrimination in College programs, activities, or services solely by reason of their disability. By federal law, a person with a disability is any person who:

- Has a physical or mental impairment
- Has a record of such impairment
- Is regarded as having such an impairment which substantially limits one or more major life activities such as walking, seeing, hearing, speaking, or learning

All students with disabilities have the responsibility of meeting each program's essential technical and academic standards. Reasonable accommodations, academic adjustments, and/or auxiliary aids are determined on a case-by-case basis. Mitchell shall select among equally effective and appropriate accommodations, adjustments, and/or auxiliary aids. Mitchell has a right to deny a request for accommodation if the documentation

- Does not identify a specific disability
- Fails to verify the need for the request is warranted
- Is not provided in a timely manner

Mitchell can also deny a request for accommodation if the desired accommodation would

- Pose an undue administrative or financial burden on the College
- Fundamentally alter the course or program

In the event a requested accommodation would pose an undue burden, the College will endeavor to make an equally effective accommodation that would allow the requesting party equal access to programs. Guidelines for appropriate documentation of disabilities are available from the Coordinator of Disability Services upon request.

While the College will provide auxiliary aids and services, the College cannot provide attendant care services/personal assistants or items for personal use such as wheelchairs, other mobility aids or hearing aids. The disabilities coordinator can refer the student to a community resource for assistance.

It is the student's responsibility to initiate requests for accommodations. Students requiring services or requesting classroom accommodations should contact the Office of Disability Services at the beginning of each semester. All requests should be made as far in advance as possible, as some accommodations will require time and resources to provide.

Special Populations

The purpose of the Carl D. Perkins Vocational and Technology Education Act of 1998 (P.L. 105-332) is to develop more fully the academic, vocational, and technical skills of secondary and post-secondary students who elect to enroll in vocational and technical education programs.

Visitors and Children on Campus

To avoid disruptive behavior and ensure the safety of young visitors, all children on campus must be under the direct supervision of an adult. Any visitor not enrolled for the current term is not permitted in classrooms or laboratories.

Corporate and Continuing Education

Mitchell Community College's Corporate and Continuing Education division provides academic and occupational programs to meet the needs of Iredell and surrounding counties. Courses are for those who need to train, retrain, and update their vocational or professional skills, grow in basic knowledge, or develop leisure time activities, and are scheduled continuously throughout the year.

Registration

Pre-registration is required for all Continuing Education courses. Classes are filled on a first-come, first-served basis. A prospective student should contact the Continuing Education Center for registration information. Registration is not official until fees are paid. Students are urged to complete registration and pay fees at least three business days prior to the first class meeting. Registration forms are available at www.mitchellcc.edu/continuing-education/ or at the Continuing Education office. The registration form may be mailed to the Continuing Education Division along with the registration fee. Insufficient enrollment will result in cancellation of the specific class.

Cancellation and Refund Policy

Mitchell reserves the right to cancel a class due to lack of enrollment. If this occurs, preregistered/prepaid students will receive a full refund. Preregistered/prepaid students who officially withdraw from a course prior to its beginning will receive a full refund. Students who officially withdraw from a course prior to the 10 percent point will receive a 75 percent refund. Students who withdraw from a course after the 10 percent point are ineligible for a refund. Some self-supporting classes are not eligible for refunds.

Fees and Supplies

Registration fees are established by the N.C. State Board of Community Colleges and are subject to change. These fees vary according to instructional time, course content and equipment requirements. Additional expenses may be required for books, supplies and materials. The charges for self-supporting classes are based on the cost of course delivery.

Credits (CEUs)

Continuing Education Units (CEUs) are awarded to those students who satisfactorily complete any of the courses listed as offering a specified number of CEUs. One CEU is defined as ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. A permanent record of each student's CEUs will be maintained by Mitchell. Transcripts are available upon written request. Not all Continuing Education courses are accredited for CEU recognition.

Attendance

The attendance requirement for most classes is 80 percent. Other criteria may be necessary to satisfactorily complete the course. Some outside certifying agencies have more stringent attendance criteria that must be met.

Corporate and Continuing Education Programs

Community Service

These programs are designed to appeal to the avocational and special interests of adults in our community. Classes include dance, yoga, guitar, calligraphy, painting, photography, sewing, stained glass, and other topics. The community services program also sponsors various special events.

Occupational Extension

These programs are specifically designed to upgrade the skills of those currently employed and prepare other individuals to enter the work force. Pre-licensing, certification and continuing education course requirements for numerous occupations such as real estate, notary public,

building contractors, welding, HVAC, manufacturing, machining, and vehicle safety and emissions inspection are scheduled on a regular basis.

Allied Health

These programs provide training in medical fields such as nurse assistant (CNA) and emergency medical training (EMT) and prepare students for state certification. Coursework is offered for initial certification, recertification and job upgrade.

Fire Protection Technology

This program provides fire and rescue training. Registration fees are currently waived for active members of fire or rescue departments.

Human Resources Development (HRD)

This program provides employability skills training for unemployed and under-employed adults and is beneficial for dislocated workers, anyone seeking employment or advancement, or those interested in returning to school for re-training. Topics include the impact of technology in the workplace, re-employment procedures, effective communication skills, resume writing, interviewing strategies, college preparation, study skills, and career exploration.

Career Readiness Certificate (CRC)

This program provides a portable credential that certifies skill attainment for an individual, and confirms to employers that an individual possesses certain workplace skills. CRC participants are assessed in Reading for Information, Locating Information, and Applied Math. Students in the program may take the nationally recognized WorkKeys Test and earn a Bronze, Silver, or Gold Certificate that will demonstrate proficiency in these three areas.

Business and Industry Services

Training Programs

General and customized training programs are available to business and industry. These programs are designed to meet specific business or industry needs. They may be held at the business location or at the College. Programs often address technical skills, computer operations, team development, supervision and leadership. The cost of these courses varies.

WorkKeys Employment Assessments and Job Profiling

These services are available to employers who need an EEOC-compliant method for assessing current or potential employees. Assessments are completed using WorkKeys, a nationally recognized system for determining the skill sets and work-related competencies that are critical to job success. Job profiling is also available to provide a tailored description of any specific job and to identify the skill requirements relevant to that position.

Small Business Center

The Small Business Center (SBC) supports the economic growth of Iredell County by providing training and counseling for existing and prospective small business owners and employees. The SBC offers seminars, workshops and courses each semester. The SBC also provides a wide array of computer courses including word processing, spreadsheets, databases, desktop publishing, computerized accounting, and presentation programs. In addition to educational programs, the Center provides networking opportunities to assist the small business owner.

Customized Training Programs

This program provides training for companies new to Iredell County and for existing companies undergoing an expansion that will result in the addition of twelve or more new production jobs. These training programs are customized and designed cooperatively with the industry and local college personnel. Training is administered by the College and is available to the service area of Iredell County. This program also serves the training needs of an existing industry's skilled and semi-skilled workforce through a cooperative effort in assessing training needs and delivery of training associated with industrial occupations.

Basic Skills Programs

The Adult Basic Skills Program is based on the philosophy that every student, regardless of functional level, is teachable, capable of self-improvement, and should have the opportunity to participate in continuing educational activities.

Basic Skills Programs provide educational opportunities for adults 18 years or older who have not completed high school or who would like assistance with basic education skills. This includes reading, writing, speaking, problem-solving, or mathematics at a level necessary to function in society, on a job, or in the family. Sixteen- and 17-year-olds who are out of school may enter only under special regulations. High school graduates who would like to enroll in refresher courses are welcome. All classes are FREE of charge.

Adult Basic Education (ABE) provides adults reading, writing, and math instruction.

High School Equivalency (HSE) is a high school equivalency program designed to test a student's knowledge in English, math, reading, natural science and social studies. Upon satisfactory completion of the tests, the student receives an HSE (high school equivalency diploma) issued by the State Board of Community Colleges. The HSE is recognized as the equivalent of a high school diploma. To qualify for this program, students must be at least 18 years old. Special need 16-17 year olds may be served upon completion of Minor Release Form that requires notarized parental permission, and release from the public school system. The HSE examiner should be contacted for further information. Students have the option to complete the program online.

English as a Second Language (ESL) teaches reading, writing and speaking English to adults for whom English is not their primary language.

Basic Skills in the Workplace is designed to meet the needs of the employer and the employee in the performance of their work. Employees receive instruction in areas such as reading, computation, problem solving, communication skills and team-working skills. Workplace vocabulary, safety procedures, workplace forms, recording time cards and various computer-assisted instructions using workplace software may be incorporated in the curricula.

Programs of Study 2019-2020

	Program Code
College Transfer Programs	
Associate in Arts.....	A10100
Associate in Engineering.....	A10500
Associate in Science.....	A10400
Associate in Fine Arts in Visual Art.....	A10600
Associate in Fine Arts in Music.....	A10700

Associate in Applied Science Degrees (A.A.S.)

Accounting and Finance.....	A25800
Agribusiness Technology.....	A15100
Agribusiness Education.....	A15330
Associate Degree Nursing.....	A45110
Business Administration.....	A25120
Computer Integrated Machining.....	A50210
Criminal Justice Technology.....	A55180
Culinary Arts.....	A55150
Dietetic Technician (Collaborative Program).....	A45310
Digital Media Technology.....	A25210
Early Childhood Education–Career.....	A55220C
Early Childhood Education–B-K Licensure Transfer.....	A55220L
Early Childhood Education–Non-Teaching Licensure Transfer.....	A55220NL
Electrical Systems Technology.....	A35130
Electronics Engineering Technology.....	A40200
Emergency Medical Services.....	A45340
Emergency Medical Services Bridging Option.....	A45340B
Fire Protection Technology.....	A55240
General Occupational Technology.....	A55280
Healthcare Management Technology.....	A25200
Health Information Technology (Collaborative Program).....	A45360
Human Services Technology.....	A45380
Information Technology–Networking.....	A25590N
Information Technology–Service/Support.....	A25590S
Information Technology–Software Development.....	A25590P
Mechanical Engineering Technology.....	A40320
Mechatronics Engineering Technology.....	A40350
Medical Assisting.....	A45400
Medical Laboratory Technology (Collaborative Program).....	A45420
Paramedic to Associate Degree Nursing Option.....	A45110PB
Speech-Language Pathology Assistant (Collaborative Program).....	A45730
Welding Technology.....	A50420

Diploma Programs

Accounting and Finance.....	D25800
Air Conditioning, Heating, and Refrigeration Technology.....	D35100
Business Administration.....	D25120
Cosmetology.....	D55140
Early Childhood Education.....	D55220
Electrical Systems Technology.....	D35130
General Occupational Technology.....	D55280
Information Technology.....	D25590
Medical Assisting.....	D45400
Robotics.....	D40200R
Welding.....	D50420

Certificate Programs

Accounting.....	C25800A
Accounting Foundations.....	C25800F
Agriculture Business Certificate.....	C15100A
Agriculture Science Certificate.....	C15100B

Agriculture Sustainable Farming Methods Certificate.....	C15100C
Air Conditioning, Heating, and Refrigeration	C35100A
Analog Electronics	C40200A
Automation Certificate.....	C40350A
Banking	C25120B
Basic Law Enforcement Training.....	C55120
BLET Preparation Certificate	C55180B
Business Office Certificate	C25120X
CAD Drafting.....	C40320C
Computer Integrated Machining	C50210
Cosmetology Instructor.....	C55160
Culinary Arts	C55150C
Culinary Arts-Service Management.....	C55150S
Digital Media	C25210
Digital Media Technology Essentials	C25210E
Early Childhood Administration	C55220A
Early Childhood Education.....	C55220E
Electrical Maintenance	C40200N
Electrical Systems.....	C35130E
Embedded Microprocessors Design.....	C40200B
Essentials of the Criminal Justice System Certificate.....	C55180E
Esthetics Technology	C55230
Fire Protection Technology	C55240
Fire Services Manager.....	C55240FS
Healthcare Management Certificate	C25200
Human Services.....	C45380H
Human Resources Management.....	C25120HR
Income Tax Preparer	C25800
Infant/Toddler Care	C55290
Information Technology-Starter.....	C25590A
Information Technology-Cisco.....	C25590C
Information Technology-Database Foundations.....	C25590D
Information Technology-IT Exploration Certificate.....	C25590E
Information Technology-Software Development Foundations.....	C25590F
Information Technology-IT Help Desk Foundations	C25590H
Information Technology-Foundations	C25590I
Information Technology-JAVA.....	C25590J
Information Technology-Mobile App Development.....	C25590M
Information Technology-Operating Systems Certificate.....	C25590S
Information Technology-Computer Science Certificate.....	C25590T
Investigations Certificate.....	C55180I
Loss Prevention Certificate.....	C55180L
Machining	C40320M
Maintenance Certificate	C40350M
Management	C25120A
Manicuring/Nail Technology	C55400
Manufacturing.....	C40320A
Marketing.....	C25120M
Mechanical Fabrication.....	C40320F
Nurse Aide.....	C45840
Parent Educator Certificate	C55220P
Personal Finance Certificate.....	C25800P
Refrigeration and Heating Servicing	C35100R
Robotics Certificate.....	C40200R
Social Work.....	C45380SW
Special Education Certificate.....	C55220S
Substance Abuse	C45380SA
Turf and Landscape Management.....	C15100
Welding.....	C50420W
Associate in General Education	A10300
Associate in General Education-Nursing.....	A1030N
Associate in General Education - Pre-Medical Assisting	A10300M

Associate in Arts—A.A. [A10100]

Degree Requirements

Universal General Education Transfer Component

(All Universal General Education Transfer Component courses will transfer for equivalency credit.)

English Composition (6 Credits)

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

Humanities/Fine Arts (9 Credits)

Select three courses from two different disciplines.

ART	111	Art Appreciation	.....3
ART	114	Art History Survey I	.....3
ART	115	Art History Survey II	.....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
MUS	112	Introduction to Jazz	.....3
PHI	215	Philosophical Issues	.....3
PHI	240	Introduction to Ethics	.....3

Social/Behavioral Sciences (9 Credits)

Select three courses from two 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

Math (3-4 Credits)

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

Natural Science (4 Credits)

Select one group.

AST	111	Descriptive Astronomy and	.....3
AST	111A	Descriptive Astronomy Lab	.....1
or			
BIO	110	Principles of Biology	.....4
or			
BIO	111	General Biology I	.....4
or			
CHM	151	General Chemistry I	.....4
or			
PHY	110	Conceptual Physics and	.....3
PHY	110A	Conceptual Physics Lab	.....1

Additional General Education Hours (14 Credits)

An additional 14 Credits of courses should be selected from the following additional general education list below or from unselected general education core courses offered above in this program that are classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university.

ART	116	Survey of American Art	3
ART	117	Non-Western Art History	3
BIO	112	General Biology II	4
BIO	120	Introductory Botany	4
BIO	130	Introductory Zoology	4
BIO	140	Environmental Biology	3
BIO	140A	Environmental Biology Lab	1
CHI	111	Elementary Chinese I	3
CHI	112	Elementary Chinese II	3
CHI	211	Intermediate Chinese I	3
CHI	212	Intermediate Chinese II	3
CHM	131	Introduction to Chemistry	3
CHM	131A	Introduction to Chemistry Lab	1
CHM	132	Organic and Biochemistry	4
CHM	152	General Chemistry II	4
CIS	110	Introduction to Computers	3
CIS	115	Introduction to Prog and Logic	3
COM	110	Introduction to Communication	3
COM	120	Intro to Interpersonal Communication	3
COM	140	Intro to Intercultural Communication	3
ENG	114	Professional Research and Reporting	3
ENG	241	British Literature I	3
ENG	242	British Literature II	3
ENG	261	World Literature I	3
ENG	262	World Literature II	3
FRE	111	Elementary French I	3
FRE	112	Elementary French II	3
GEO	130	General Physical Geography	3
GER	111	Elementary German I	3
GER	112	Elementary German II	3
HUM	115	Critical Thinking	3
HUM	120	Cultural Studies	3
HUM	130	Myth in Human Culture	3
HUM	160	Introduction to Film	3
LAT	111	Elementary Latin I	3
LAT	112	Elementary Latin II	3
MAT	172	Precalculus Trigonometry	4
MAT	263	Brief Calculus	4
MAT	271	Calculus I	4
MAT	272	Calculus II	4
MAT	273	Calculus III	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
POL	210	Comparative Government	3
POL	220	International Relations	3
PSY	241	Developmental Psychology	3
PSY	281	Abnormal Psychology	3
REL	110	World Religions	3
REL	211	Introduction to Old Testament	3
REL	212	Introduction to New Testament	3
SOC	213	Sociology of the Family	3
SOC	220	Social Problems	3
SOC	225	Social Diversity	3
SPA	111	Elementary Spanish I	3
SPA	112	Elementary Spanish II	3
SPA	211	Intermediate Spanish I	3
SPA	212	Intermediate Spanish II	3

Total General Education Hours Required 45

Other Required Hours

Academic Transition (1 Credit)

ACA 122	College Transfer Success	1
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An additional 14 Credits of courses should be selected from unselected general education core courses offered in this program above or courses classified as pre-major or elective courses within the Comprehensive Articulation Agreement below. Students should select these courses based on their intended major and transfer university.

ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
ART 121	Two-Dimensional Design	3
ART 122	Three-Dimensional Design	3
ART 131	Drawing I	3
ART 132	Drawing II	3
ART 135	Figure Drawing I	3
ART 171	Computer Art I	3
ART 231	Printmaking I	3
ART 232	Printmaking II	3
ART 240	Painting I	3
ART 241	Painting II	3
ART 261	Photography I	3
ART 262	Photography II	3
ART 266	Videography I	3
ART 267	Videography II	3
ART 271	Computer Art II	3
ART 281	Sculpture I	3
ART 282	Sculpture II	3
ART 283	Ceramics I	3
ART 284	Ceramics II	3
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 275	Microbiology	4
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 137	Principles of Management	3
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
CJC 141	Corrections	3
CSC 134	C++ Programming	3
CSC 151	JAVA Programming	3
CTS 115	Info Systems Business Concepts	3
EDU 144	Child Development I	3
EDU 145	Child Development II	3
EDU 216	Foundations of Education	3
EDU 221	Children with Exceptionalities	3
EGR 150	Introduction to Engineering	2
EGR 210	Intro to Elec/Comp Engineering Lab	2
EGR 212	Logic System Design I	3
ENG 125	Creative Writing I	3
ENG 126	Creative Writing II	3
ENG 273	African-American Literature	3
HEA 110	Personal Health/Wellness	3
HEA 112	First Aid and CPR	2
HEA 120	Community Health	3
HIS 151	Hispanic Civilization	3
HIS 221	African-American History	3
HIS 236	North Carolina History	3
HUM 180	International Cultural Exploration	3
MAT 280	Linear Algebra	3
MAT 285	Differential Equations	3
MUS 111	Fundamentals of Music	3
MUS 121	Music Theory I	4
MUS 122	Music Theory II	4
MUS 131	Chorus I	1
MUS 132	Chorus II	1
MUS 221	Music Theory III	4

MUS	222	Music Theory IV	4
MUS	231	Chorus III.....	1
MUS	232	Chorus IV	1
PED	110	Fit and Well for Life	2
PED	111	Physical Fitness I	1
PED	113	Aerobics I.....	1
PED	117	Weight Training I.....	1
PED	121	Walk, Jog, Run	1
PED	122	Yoga I	1
PED	123	Yoga II	1
PED	125	Self-Defense: Beginning	1
PED	128	Golf—Beginning	1
PED	137	Badminton.....	1
PED	139	Bowling—Beginning	1
PED	142	Lifetime Sports	1
PED	143	Volleyball—Beginning	1
PED	145	Basketball—Beginning	1
PED	171	Nature Hiking.....	1
PED	186	Dancing for Fitness.....	1
PED	217	Pilates I	1
PED	233	Ju-Jitsu.....	1
PED	239	Kickboxing.....	1
POL	130	State and Local Government.....	3
WBL	111	Work-Based Learning I.....	1*

Total Credit Hours Required for A.A. Degree 60

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.

** WBL-111 is allowed as the 61st semester hour in this program. It cannot be factored into the required 60 credit hours for graduation.*

Associate in Engineering—A.E. [A10500]

Curriculum Description

The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (Credits) of courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. Admission to Engineering programs is highly competitive and admission is not guaranteed.

To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.

Degree Requirements

Universal General Education Transfer Component

*(Universal General Education Transfer Component (UGETC) courses will transfer for equivalency credit to all UNC institutions.) *Exceptions (i.e. courses which are not classified as UGETC) are italicized.*

English Composition (6 Credits)

Required

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

Humanities/Fine Arts (3 Credits)

Select one course.

ENG 231	American Literature I	3
ENG 232	American Literature II	3
PHI 215	Philosophical Issues	3
PHI 240	Introduction to Ethics	3
REL 110	<i>World Religions</i>	3

(REL 110 will transfer for equivalency credit to the engineering programs at all five UNC institutions that offer undergraduate engineering programs. It may not transfer with equivalency to other programs.)

Fine Arts and Communication (3 Credits)

Select one course.

ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
COM 231	Public Speaking	3
MUS 110	Music Appreciation	3
MUS 112	Introduction to Jazz	3

Social/Behavioral Sciences (6 Credits)

Required

ECO 251	Principles of Microeconomics	3
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Select one course.

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

Math (12 Credits)

Calculus I is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus-ready will need to take additional math courses.

Required

MAT	271	Calculus I.....	4
MAT	272	Calculus II.....	4
MAT	273	Calculus III.....	4

Natural Science (12 Credits)

Required

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

Total General Education Hours Required 42

Other Required Hours

Academic Transition (1 Credit)

ACA	122	College Transfer Success.....	1
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Pre-major Elective (2 Credits)

EGR	150	Introduction to Engineering.....	2
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Other General Education and Pre-major Elective Hours (15 Credits)

Take 15 Credits 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.....	4
CHM	152	General Chemistry II.....	4
COM	110	Introduction to Communication.....	3
CSC	134	C++ Programming.....	3
CSC	151	JAVA Programming.....	3
DFT	170	Engineering Graphics.....	3
ECO	252	Principles of Macroeconomics.....	3
EGR	210	Intro to Elec/Comp Engineering Lab.....	2
EGR	212	Logic System Design I.....	3
EGR	214	Num Methods for Engineers.....	3
EGR	220	Engineering Statics.....	3
MAT	280	Linear Algebra.....	3
MAT	285	Differential Equations.....	3

Total Credit Hours Required for A.E. Degree..... 60

Associate in Fine Arts in Visual Art—A.F.A. [A10600]

Curriculum Description

The Associate in Fine Arts in Visual Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours 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.

Degree Requirements

English Composition (6 Credits)

Required

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

Communication/Literature (3 Credits)

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

History (3 Credits)

HIS 111	World Civilizations I	3
HIS 112	World Civilizations II	3
HIS 131	American History I	3
HIS 132	American History II	3

Humanities/Fine Arts (3 Credits)

MUS 110	Music Appreciation	3
MUS 112	Introduction to Jazz	3
PHI 215	Philosophical Issues	3
PHI 240	Introduction to Ethics	3

Social/Behavioral Sciences (3 Credits)

ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
POL 120	American Government	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3

Math (3-4 Credits)

MAT 143	Quantitative Literacy	3
MAT 152	Statistical Methods	4
MAT 271	Calculus I	4
MAT 272	Calculus II	4

Natural Science (4 Credits)

One course in introductory mathematics and one course, including the accompanying laboratory work, from the biological and physical science courses are required.

AST 111	Descriptive Astronomy	3
AST 111A	Descriptive Astronomy Lab	1
BIO 110	Principles of Biology	4
BIO 111	General Biology I	4
CHM 151	General Chemistry I	4
PHY 110	Conceptual Physics	3
PHY 110A	Conceptual Physics Lab	1

Total General Education Hours Required25-26

Academic Transition (1 Credit)

ACA 122	College Transfer Success	1
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Art Major Core Required (15 Credits)

ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
ART 121	Two-Dimensional Design	3
ART 122	Three-Dimensional Design	3
ART 131	Drawing I	3

Additional Required Electives (Select 19 Credits)

ART 132	Drawing II	3
ART 135	Figure Drawing I	3
ART 171	Computer Art I	3
ART 231	Printmaking I	3
ART 232	Printmaking II	3
ART 240	Painting I	3
ART 241	Painting II	3
ART 261	Photography I	3
ART 262	Photography II	3
ART 266	Videography I	3
ART 267	Videography II	3
ART 271	Computer Art II	3
ART 281	Sculpture I	3
ART 282	Sculpture II	3
ART 283	Ceramics I	3
ART 284	Ceramics II	3
MAT 172	Precalculus Trigonometry	4
WBL 111	Work-Based Learning I	1*

Total Credit Hours Required for A.F.A Degree 60-61

Students must meet the receiving university's foreign language, mathematics, and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

** WBL-111 is allowed as the 61st semester hour in this program. It cannot be factored into the required 60 credit hours for graduation.*

Associate in Fine Arts in Music [A10700]

Curriculum Description

The Associate in Fine Arts degree shall be granted for planned programs of study consisting of a minimum of 60 and a maximum of 61 semester hours of approved college transfer courses. (Ref. 23 NCAC 2E.0204) 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 use of computers.

Degree Requirements

General Education

The general education core includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. All Universal General Education Component courses will transfer for equivalency credit.

English Composition (6 Credits)

Required

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

Humanities/Fine Arts (3 Credits)

Select one course from the following disciplines:

ART 111	Art Appreciation	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
MUS 112	Introduction to Jazz	3
PHI 215	Philosophical Issues	3
PHI 240	Introduction to Ethics	3

Social/Behavioral Sciences (6 Credits)

Select two courses from two different subject areas:

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

Natural Science (4 Credits)

Select one course including the accompanying laboratory work.

AST 111	Descriptive Astronomy	3
AST 111A	Descriptive Astronomy Lab	1
BIO 110	Principles of Biology	4
BIO 111	General Biology I	4
CHM 151	General Chemistry I	4
GEL 111	Geology	4
PHY 110	Conceptual Physics	3
PHY 110A	Conceptual Physics Lab	1

Math (3-4 Credits)

MAT 143	Quantitative Literacy	3
MAT 171	Precalculus Algebra	4

Additional Gen Ed Requirement (3 Credits)

An additional 3 Credits of courses should be selected from the following list of UGETC courses with the exception of foreign language. Students should select a course based on their intended major and Transfer University.

ART 111	Art Appreciation	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
MUS	112	Introduction to Jazz.....	3
PHI	215	Philosophical Issues.....	3
PHI	240	Introduction to Ethics.....	3

Voice majors are required to take one foreign language course, any foreign language course classified as general education /humanities on the Comprehensive Articulation transfer course list.

Total General Education Hours Required.....25-26

Other Required Hours

Academic Transition (1 Credit-)

ACA	122	College Transfer Success	1
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Music Theory Core (16 Credits Required)

MUS	121	Music Theory I.....	3
MUS	122	Music Theory II.....	3
MUS	125	Aural Skills I.....	1
MUS	126	Aural Skills II.....	1
MUS	221	Music Theory III.....	3
MUS	222	Music Theory IV.....	3
MUS	225	Aural Skills III.....	1
MUS	226	Aural Skills IV.....	1

Applied Music Core (8 Credits Required)

MUS	161	Applied Music I.....	2
MUS	162	Applied Music II.....	2
MUS	261	Applied Music III.....	2
MUS	262	Applied Music IV.....	2

Ensemble Core (3 Credits Required)

MUS	131	Chorus I.....	1
MUS	132	Chorus II.....	1
MUS	133	Band I.....	1
MUS	134	Band II.....	1
MUS	135	Jazz Ensemble I.....	1
MUS	136	Jazz Ensemble II.....	1
MUS	137	Orchestra I.....	1
MUS	138	Orchestra II.....	1
MUS	141	Ensemble I.....	1
MUS	142	Ensemble II.....	1
MUS	231	Chorus III.....	1
MUS	232	Chorus IV.....	1
MUS	233	Band III.....	1
MUS	234	Band IV.....	1
MUS	235	Jazz Ensemble III.....	1
MUS	236	Jazz Ensemble IV.....	1
MUS	237	Orchestra III.....	1
MUS	238	Orchestra IV.....	1
MUS	241	Ensemble III.....	1
MUS	242	Ensemble IV.....	1

Class Music Core (2 Credits Required)

MUS	151	Class Music I.....	1
MUS	152	Class Music II.....	1

Music Electives (6 Credits Required)

*MUS	260	Introduction to Music Education.....	2
MUS	271	Music History I.....	3
MUS	272	Music History II.....	3

**MUS 260 is optional but recommended for Music Education major.*

Total Credit Hours Required for A.F.A Degree60-61

Students must meet the receiving university's foreign language, mathematics, and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

Associate in General Education—A.G.E. [A10300]

Curriculum Description

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development. All courses in the program are college-level transferable courses; however, the program is not principally designed for college transfer.

Coursework includes study in the areas of humanities and fine arts, social and behavioral sciences, Natural Science 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.

Degree Requirements

English Composition (6 Credits)

Required

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

Humanities/Fine Arts (3 Credits)

One course from the following discipline areas: art, foreign languages, interdisciplinary humanities, literature, music, philosophy, and religion are required.

ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	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 261	World Literature I	3
ENG 262	World Literature II	3
ENG 273	African-American Literature	3
HUM 115	Critical Thinking	3
HUM 120	Cultural Studies	3
HUM 130	Myth in Human Culture	3
HUM 160	Introduction to Film	3
MUS 110	Music Appreciation	3
MUS 111	Fundamentals of Music	3
MUS 112	Introduction to Jazz	3
MUS 121	Music Theory I	4
MUS 122	Music Theory II	4
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 211	Intermediate Spanish I	3
SPA 212	Intermediate Spanish II	3

Social/Behavioral Sciences (3 Credits)

One course from the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology are required.

ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
GEO 130	General Physical Geography	3
HIS 131	American History I	3
HIS 132	American History II	3
HIS 151	Hispanic Civilization	3
HIS 221	African-American History	3
HIS 236	North Carolina History	3
POL 120	American Government	3
POL 130	State and Local Government	3
POL 210	Comparative Government	3
POL 220	International Relations	3

PSY	150	General Psychology	3
PSY	241	Developmental Psychology	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	225	Social Diversity	3

Natural Science/Mathematics (3-4 Credits)

One course from the following discipline areas: astronomy, biology, chemistry, mathematics, and physics are required.

AST	111	Descriptive Astronomy	3
AST	111A	Descriptive Astronomy Lab	1
BIO	110	Principles of Biology	4
BIO	111	General Biology I	4
BIO	112	General Biology II	4
BIO	120	Introductory Botany	4
BIO	130	Introductory Zoology	4
BIO	140	Environmental Biology	3
BIO	140A	Environmental Biology Lab	1
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	132	Organic and Biochemistry	4
CHM	151	General Chemistry I	4
CHM	152	General Chemistry II	4
MAT	143	Quantitative Literacy	3
MAT	152	Statistical Methods I	4
MAT	171	Precalculus Algebra	4
MAT	172	Precalculus Trigonometry	4
MAT	263	Brief Calculus	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	110	Conceptual Physics	3
PHY	110A	Conceptual Physics Lab	1
PHY	151	College Physics I	4
PHY	152	College Physics II	4
PHY	251	General Physics I	4
PHY	252	General Physics II	4

Other Required Hours (49 Credits)

Other required hours may be chosen from courses listed below or unselected general education core courses offered above in this program. A maximum of 7 Credits in health, physical education, college orientation, and/or study skills may be included as other required hours.

ACA	122	College Transfer Success	1
ACC	120	Principles of Financial Accounting	4
ACC	121	Principles of Managerial Accounting	4
ART	122	Three-Dimensional Design	3
ART	135	Figure Drawing I	3
ART	231	Printmaking I	3
ART	232	Printmaking II	3
ART	267	Videography II	3
ART	282	Sculpture II	3
ART	284	Ceramics II	3
ASL	111	Elementary ASL I	3
ASL	112	Elementary ASL II	3
BIO	155	Nutrition	3
BUS	110	Introduction to Business	3
BUS	115	Business Law I	3
BUS	137	Principles of Management	3
CHI	111	Elementary Chinese I	3

CHI	112	Elementary Chinese II.....	3
CIS	110	Introduction to Computers.....	3
CIS	115	Introduction to Prog and Logic.....	3
CJC	111	Introduction to Criminal Justice.....	3
CJC	121	Law Enforcement Operations.....	3
CJC	141	Corrections.....	3
COM	110	Introduction to Communication.....	3
COM	120	Intro to Interpersonal Communication.....	3
COM	231	Public Speaking.....	3
CSC	134	C++ Programming.....	3
CSC	151	JAVA Programming.....	3
CTS	115	Info Systems Business Concepts.....	3
DFT	170	Engineering Graphics.....	3
DRA	131	Acting II.....	3
EGR	150	Introduction to Engineering.....	2
EGR	210	Intro to Elec/Comp Engineering Lab.....	2
EGR	212	Logic System Design I.....	3
EGR	215	Network Theory I.....	3
EGR	216	Logic and Network Lab.....	1
EGR	220	Engineering Statics.....	3
EGR	225	Engineering Dynamics.....	3
EGR	228	Introduction to Solid Mechanics.....	3
ENG	114	Professional Research and Reporting.....	3
ENG	126	Creative Writing II.....	3
FRE	111	Elementary French I.....	3
FRE	112	Elementary French II.....	3
GER	111	Elementary German I.....	3
GER	112	Elementary German II.....	3
HEA	110	Personal Health/Wellness.....	3
HEA	112	First Aid and CPR.....	2
HEA	120	Community Health.....	3
HUM	180	International Cultural Exploration.....	3
LAT	111	Elementary Latin I.....	3
LAT	112	Elementary Latin II.....	3
MUS	131	Chorus I.....	1
MUS	132	Chorus II.....	1
MUS	133	Band I.....	1
MUS	134	Band II.....	1
MUS	135	Jazz Ensemble I.....	1
MUS	136	Jazz Ensemble II.....	1
MUS	141	Ensemble I.....	1
MUS	142	Ensemble II.....	1
MUS	151	Class Music I.....	1
MUS	152	Class Music II.....	1
MUS	161	Applied Music I.....	2
MUS	162	Applied Music II.....	2
MUS	221	Music Theory III.....	4
MUS	222	Music Theory IV.....	4
MUS	231	Chorus III.....	1
MUS	232	Chorus IV.....	1
MUS	233	Band III.....	1
MUS	234	Band IV.....	1
MUS	235	Jazz Ensemble III.....	1
MUS	236	Jazz Ensemble IV.....	1
MUS	241	Ensemble III.....	1
MUS	242	Ensemble IV.....	1
MUS	261	Applied Music III.....	2
MUS	262	Applied Music IV.....	2
MUS	271	Music History I.....	3
MUS	272	Music History II.....	3
OST	134	Text Entry and Formatting.....	3
OST	135	Advanced Text Entry and Formatting.....	3
PED	110	Fit and Well for Life.....	2
PED	111	Physical Fitness I.....	1
PED	113	Aerobics I.....	1
PED	117	Weight Training I.....	1
PED	121	Walk, Jog, Run.....	1
PED	122	Yoga I.....	1

PED	123	Yoga II	1
PED	125	Self-Defense: Beginning	1
PED	128	Golf—Beginning	1
PED	134	Wrestling.....	1
PED	137	Badminton.....	1
PED	139	Bowling—Beginning	1
PED	142	Lifetime Sports	1
PED	143	Volleyball—Beginning	1
PED	145	Basketball—Beginning	1
PED	171	Nature Hiking.....	1
PED	186	Dancing for Fitness.....	1
PED	217	Pilates I.....	1
PED	233	Ju-Jitsu.....	1
PED	239	Kickboxing.....	1
SPA	111	Elementary Spanish I.....	3
SPA	112	Elementary Spanish II	3
WBL	111	Work-Based Learning I.....	1
WBL	112	Work-Based Learning I.....	1
WBL	121	Work-Based Learning II.....	1

Total Credit Hours Required for A.G.E. Degree..... 64

Associate in General Education–Nursing [A1030N]

Curriculum Description

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.

Degree Requirements

General Education Required Courses

Credits

English Composition (6 credits)

ENG 111 Writing and Inquiry3

Take one (1) course from:

ENG 112 Writing/Research in the Disciplines3

ENG 114 Professional Research and Reporting.....3

Humanities/Fine Arts (9 credits)

Take two (2) courses from:

ART 111 Art Appreciation3

ART 114 Art History Survey I.....3

ART 115 Art History Survey II.....3

HUM 115 Critical Thinking3

MUS 110 Music Appreciation.....3

MUS 112 Introduction to Jazz.....3

PHI 215 Philosophical Issues.....3

PHI 240 Introduction to Ethics3

Take one (1) course from:

ENG 231 American Literature I.....3

ENG 232 American Literature II3

Social/Behavioral Sciences (15 credits)

PSY 150 General Psychology.....3

PSY 241 Developmental Psychology.....3

SOC 210 Introduction to Sociology.....3

Take one (1) course from:

SOC 213 Sociology of the Family.....3

SOC 220 Social Problems.....3

SOC 225 Social Diversity.....3

SOC 230 Race and Ethnic Relations.....3

SOC 240 Social Psychology.....3

Take one (1) course from:

HIS 111 World Civilization I.....3

HIS 112 World Civilization II.....3

HIS 131 American History I.....3

HIS 132 American History II.....3

Natural Science (16 Credits)

BIO 168 Anatomy and Physiology I.....4

BIO 169 Anatomy and Physiology II.....4

BIO 275 Microbiology.....4

Select one group.

CHM 151 General Chemistry I.....4

or

CHM 131 Introduction to Chemistry.....3

CHM 131A Introduction to Chemistry Lab.....1

Math (7-8 credits)

MAT 152 Statistical Methods I.....4

Take one (1) course from:

MAT 143 Quantitative Literacy3

MAT 171 Precalculus Algebra4

Total General Education Required Hours 53-54

Other Required Hours

Academic Transition (1 Credit)

ACA 122 College Transfer Success1

Additional Required Courses (6 Credits)

Take two (2) courses from:

ECO 251 Principles of Microeconomics.....3

ECO 252 Principles of Macroeconomics3

POL 120 American Government3

Total Credit Hours Required for A.G.E.–Nursing Degree 60-61

Associate in Science—A.S. [A10400]

Degree Requirements

Universal General Education Transfer Component

(All Universal General Education Transfer Component courses will transfer for equivalency credit.)

English Composition (6 Credits)

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

Humanities/Fine Arts (6 Credits)

Select two courses from two different disciplines.

ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	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
MUS 112	Introduction to Jazz	3
PHI 215	Philosophical Issues	3
PHI 240	Introduction to Ethics	3

Social/Behavioral Sciences (6 Credits)

Select two courses from two 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

Math (8 Credits)

MAT 171	Precalculus Algebra	4
MAT 172	Precalculus Trigonometry	4
MAT 263	Brief Calculus	4
MAT 271	Calculus I	4
MAT 272	Calculus II	4

Natural Science (8 Credits)

Select one group.

BIO 111	General Biology I and	4
BIO 112	General Biology II	4
or		
CHM 151	General Chemistry I and	4
CHM 152	General Chemistry II	4
or		
PHY 151	College Physics I and	4
PHY 152	College Physics II	4
or		
PHY 251	General Physics I and	4
PHY 252	General Physics II	4
or		
BIO 110	Principles of Biology and	4
PHY 110	Conceptual Physics and	3
PHY 110A	Conceptual Physics Lab	1

Additional General Education Hours (11 Credits)

An additional 11 Credits of courses should be selected from the following additional general education list below or from unselected general education core courses offered above in this program that are classified as general education within the Comprehensive Articulation Agreement. Students should select these courses based on their intended major and transfer university.

ART	116	Survey of American Art	3
ART	117	Non-Western Art History	3
ASL	111	Elementary ASL I	3
ASL	112	Elementary ASL II	3
AST	111	Descriptive Astronomy	3
AST	111A	Descriptive Astronomy Lab	1
BIO	120	Introductory Botany	4
BIO	130	Introductory Zoology	4
BIO	140	Environmental Biology	3
BIO	140A	Environmental Biology Lab	1
CHI	111	Elementary Chinese I	3
CHI	112	Elementary Chinese II	3
CHI	211	Intermediate Chinese I	3
CHI	212	Intermediate Chinese II	3
CHM	131	Introduction to Chemistry	3
CHM	131A	Introduction to Chemistry Lab	1
CHM	132	Organic and Biochemistry	4
CIS	110	Introduction to Computers	3
CIS	115	Introduction to Prog and Logic	3
COM	110	Introduction to Communication	3
COM	120	Intro to Interpersonal Communication	3
COM	140	Intro to Intercultural Communication	3
ENG	114	Professional Research and Reporting	3
ENG	241	British Literature I	3
ENG	242	British Literature II	3
ENG	261	World Literature I	3
ENG	262	World Literature II	3
FRE	111	Elementary French I	3
FRE	112	Elementary French II	3
GEO	130	General Physical Geography	3
GER	111	Elementary German I	3
GER	112	Elementary German II	3
HUM	115	Critical Thinking	3
HUM	120	Cultural Studies	3
HUM	130	Myth in Human Culture	3
HUM	160	Introduction to Film	3
LAT	111	Elementary Latin I	3
LAT	112	Elementary Latin II	3
MAT	143	Quantitative Literacy	3
MAT	152	Statistical Methods	4
MAT	272	Calculus II	4
MAT	273	Calculus III	4
POL	210	Comparative Government	3
POL	220	International Relations	3
PSY	241	Developmental Psychology	3
PSY	281	Abnormal Psychology	3
REL	110	World Religions	3
REL	211	Introduction to Old Testament	3
REL	212	Introduction to New Testament	3
SOC	213	Sociology of the Family	3
SOC	220	Social Problems	3
SOC	225	Social Diversity	3
SPA	111	Elementary Spanish I	3
SPA	112	Elementary Spanish II	3
SPA	211	Intermediate Spanish I	3
SPA	212	Intermediate Spanish II	3

Total General Education Hours Required 45

Other Required Hours

Academic Transition (1 Credit)

ACA 122	College Transfer Success	1
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An additional 14 Credits of courses should be selected from unselected general education core courses offered in this program above or courses classified as pre-major or elective courses within the Comprehensive Articulation Agreement below. Students should select these courses based on their intended major and transfer university.

ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting.....	4
ART 121	Two-Dimensional Design	3
ART 122	Three-Dimensional Design	3
ART 131	Drawing I	3
ART 132	Drawing II	3
ART 135	Figure Drawing I	3
ART 171	Computer Art I	3
ART 231	Printmaking I	3
ART 232	Printmaking II	3
ART 240	Painting I	3
ART 241	Painting II	3
ART 261	Photography I	3
ART 262	Photography II	3
ART 266	Videography I	3
ART 267	Videography II	3
ART 271	Computer Art II	3
ART 281	Sculpture I	3
ART 282	Sculpture II	3
ART 283	Ceramics I	3
ART 284	Ceramics II	3
BIO 150	Genetics in Human Affairs	3
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 275	Microbiology	4
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 137	Principles of Management	3
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
CJC 141	Corrections	3
CSC 134	C++ Programming	3
CSC 151	JAVA Programming	3
CTS 115	Info Systems Business Concepts	3
EDU 144	Child Development I	3
EDU 145	Child Development II	3
EDU 216	Foundations of Education	3
EDU 221	Children with Exceptionalities	3
EGR 150	Introduction to Engineering	2
EGR 210	Intro to Elec/Comp Engineering Lab	2
EGR 212	Logic System Design I	3
ENG 125	Creative Writing I	3
ENG 126	Creative Writing II	3
ENG 235	Survey of Film as Literature	3
ENG 273	African-American Literature	3
HEA 110	Personal Health/Wellness	3
HEA 112	First Aid and CPR	2
HEA 120	Community Health	3
HIS 151	Hispanic Civilization	3
HIS 221	African-American History	3
HIS 236	North Carolina History	3
HUM 180	International Cultural Exploration	3
MAT 280	Linear Algebra	3
MAT 285	Differential Equations	3
MUS 111	Fundamentals of Music	3
MUS 121	Music Theory I	4
MUS 122	Music Theory II	4
MUS 131	Chorus I	1

MUS	132	Chorus II.....	1
MUS	221	Music Theory III.....	4
MUS	222	Music Theory IV.....	4
MUS	231	Chorus III.....	1
MUS	232	Chorus IV.....	1
PED	110	Fit and Well for Life.....	2
PED	111	Physical Fitness I.....	1
PED	113	Aerobics I.....	1
PED	117	Weight Training I.....	1
PED	121	Walk, Jog, Run.....	1
PED	122	Yoga I.....	1
PED	125	Self-Defense: Beginning.....	1
PED	128	Golf—Beginning.....	1
PED	137	Badminton.....	1
PED	139	Bowling—Beginning.....	1
PED	142	Lifetime Sports.....	1
PED	143	Volleyball—Beginning.....	1
PED	145	Basketball—Beginning.....	1
PED	171	Nature Hiking.....	1
PED	186	Dancing for Fitness.....	1
PED	217	Pilates I.....	1
PED	233	Ju-Jitsu.....	1
PED	239	Kickboxing.....	1
POL	130	State and Local Government.....	3
WBL	111	Work-Based Learning I.....	1*

Total Credit Hours Required for A.S. Degree..... 60

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.

** WBL-111 is allowed as the 61st semester hour in this program. It cannot be factored into the required 60 credit hours for graduation.*

Below are electives that can apply in the A.A.S. programs:

Humanities/Fine Arts Courses

ART	111	Art Appreciation	3
ART	114	Art History Survey I	3
ART	115	Art History Survey II	3
ENG	231	American Literature I	3
ENG	232	American Literature II	3
ENG	233	Major American Writers	3
ENG	241	British Literature I	3
ENG	242	British Literature II	3
ENG	261	World Literature I	3
ENG	262	World Literature II	3
HUM	115	Critical Thinking	3
HUM	120	Cultural Studies	3
HUM	130	Myth in Human Culture	3
HUM	160	Introduction to Film	3
MUS	110	Music Appreciation	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

Social/Behavioral Sciences Courses

ECO	251	Principles of Microeconomics	3
ECO	252	Principles of Macroeconomics	3
GEO	130	General Physical Geography	3
HIS	111	World Civilization I	3
HIS	112	World Civilization II	3
HIS	113	Economic Geography	3
HIS	131	American History I	3
HIS	132	American History II	3
HIS	151	Hispanic Civilization	3
HIS	221	African-American History	3
POL	120	American Government	3
POL	130	State and Local Government	3
POL	210	Comparative Government	3
POL	220	International Relations	3
PSY	150	General Psychology	3
SOC	210	Introduction to Sociology	3
SOC	213	Sociology of the Family	3
SOC	220	Social Problems	3
SOC	225	Social Diversity	3

Accounting and Finance

A.A.S. Degree [A25800]

Diploma Program [D25800]

Certificate Programs [C25800A, C25800F, C25800I and C25800P]

Curriculum Description

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.

Course and Hour Requirements

General Education Required Courses

	Credits
Required Courses	
ECO 252 Principles of Macroeconomics	3
ENG 111 Writing and Inquiry	3
Communications (3 credits)	
<i>Take one (1) course from:</i>	
COM 110 Introduction to Communication.....	3
COM 231 Public Speaking.....	3
Humanities (3 credits)	
<i>Take one (1) course from:</i>	
ART 111 Art Appreciation	3
HUM 115 Critical Thinking	3
MUS 110 Music Appreciation.....	3
PHI 240 Introduction to Ethics	3
Math (3-4 credits)	
<i>Take one (1) course from:</i>	
MAT 110 Math Measurement and Literacy	3
MAT 143 Quantitative Literacy	3
MAT 171 Precalculus Algebra	4
Total General Education Required Hours	15-16

Major Required Courses

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 149 Introduction to Accounting Spreadsheet.....	2
ACC 150 Accounting Software Applications	2
ACC 220 Intermediate Accounting I.....	4
ACC 221 Intermediate Accounting II.....	4
ACC 227 Practices in Accounting.....	3
BUS 110 Introduction to Business.....	3
BUS 115 Business Law I.....	3
BUS 125 Personal Finance.....	3
CIS 110 Introduction to Computers.....	3
ECO 251 Principles of Microeconomics.....	3

Major Electives

Select a total of 3 credits

BUS 137	Principles of Management.....	3
MKT 120	Principles of Marketing.....	3
WBL 111	Work Based Learning I.....	1
WBL 115	Work Based Learning Seminar I.....	1
WBL 121	Work Based Learning II.....	1

Total Major Required Hours..... 51

Total Credit Hours Required for A.A.S. Degree..... 66-67

Suggested Curriculum by Semesters

Applies to day offerings. Due to time restraints, evening students should expect to have fewer offerings each semester.

First Year

Fall Semester	Credits
ACC 120	4
BUS 110	3
CIS 110	3
COM 110 or	
COM 231	3
ENG 111	3
	16

Spring Semester

ACC 121	4
ACC 149	2
ACC 150	2
MAT 110 or	
MAT 143 or.....	3
MAT 171	(4)
	14-15

Summer Semester

Humanities/Fine Arts Elective	3
	3

Second Year

Fall Semester	Credits
ACC 129	3
ACC 140	2
ACC 220	4
BUS 115	3
ECO 251	3
	15

Spring Semester

ACC 130	3
ACC 221	4
ACC 227	3
ECO 252	3
Major Electives.....	3
	16

Diploma [D25800]

Credits

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	149	Introduction to Accounting Spreadsheet2	
ACC	150	Accounting Software Applications.....	2
BUS	110	Introduction to Business.....	3
BUS	115	Business Law I.....	3
BUS	125	Personal Finance.....	3
CIS	110	Introduction to Computers.....	3
ENG	111	Writing and Inquiry.....	3
MAT	110	Math Measurement and Literacy or.....	3
MAT	143	Quantitative Literacy or.....	3
MAT	171	Precalculus Algebra.....	(4)

Total Credit Hours Required for Diploma Program 36-37

Certificate Options

Credits

Accounting Certificate [C25800A]

ACC	120	Principles of Financial Accounting.....	4
ACC	121	Principles of Managerial Accounting.....	4
ACC	140	Payroll Accounting.....	2
ACC	149	Intro to Accounting Spreadsheets.....	2
ACC	150	Accounting Software Applications.....	2
BUS	110	Introduction to Business.....	3

Total Credit Hours Required for Certificate Program 17

Accounting Foundations Certificate [C25800F]

ACC	120	Principles of Financial Accounting.....	4
ACC	121	Principles of Managerial Accounting.....	4
BUS	110	Introduction to Business.....	3
BUS	125	Personal Finance.....	3

Total Credit Hours Required for Certificate Program 14

Income Tax Preparer Certificate [C25800I]

ACC	120	Principles of Financial Accounting.....	4
ACC	129	Individual Income Taxes.....	3
ACC	130	Business Income Taxes.....	3
ACC	149	Intro to Accounting Spreadsheets.....	2
ACC	150	Accounting Software Applications.....	2
BUS	110	Introduction to Business.....	3

Total Credit Hours Required for Certificate Program 17

Personal Finance Certificate (25800P)

ACC	120	Principles of Financial Accounting.....	4
ACC	121	Principles of Managerial Accounting.....	4
ACC	129	Individual Income Taxes.....	3
BUS	125	Personal Finance.....	3
ECO	251	Principles of Microeconomics.....	3

Total Credit Hours Required for Certificate Program 17

Agribusiness Technology

A.A.S. Degree [A15100]

Certificate Programs [C15100A, C15100B, C15100C & C15100T]

Curriculum Description

The Agribusiness Technology curriculum is designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices.

Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture.

Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology is a program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

BIO	111	General Biology I.....	4
ENG	111	Writing and Inquiry.....	3
ENG	112	Writing/Research in the Disciplines.....	3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART	111	Art Appreciation.....	3
MUS	110	Music Appreciation.....	3
*REL	110	World Religions.....	3

Social/Behavioral Sciences (3 credits)

Take one (1) course from:

ECO	251	Principles of Microeconomics.....	3
ECO	252	Principles of Macroeconomics.....	3
HIS	111	World Civilizations I.....	3
PSY	150	General Psychology.....	3
SOC	210	Introduction to Sociology.....	3

*UMO Transfer Track only

Total General Education Required Hours..... 16

Major Required Courses

AGR	110	Agricultural Economics.....	3
AGR	111	Basic Farm Maintenance.....	2
AGR	139	Introduction to Sustainable Agriculture..	3
AGR	140	Agricultural Chemicals.....	3
AGR	150	Ag-O-Metrics.....	3
AGR	170	Soil Science.....	3
AGR	210	Agricultural Accounting.....	3
AGR	212	Farm Business Management.....	3
AGR	213	Agriculture Law and Finance.....	3
AGR	214	Agricultural Marketing.....	3
AGR	261	Agronomy.....	3
ANS	110	Animal Science.....	3
BUS	110	Introduction to Business.....	3
BUS	137	Principles of Management.....	3
CIS	110	Introduction to Computers.....	3
WBL	111	Work-Based Learning I or.....	1
WBL	112	Work-Based Learning I.....	(2)
Agribusiness Major Electives.....			6

(See major electives on the following page)

Total Major Required Hours..... 51-52

Agribusiness Electives

Select 6 credits

AGR 121	Biological Pest Management.....	3
AGR 160	Plant Science.....	3
AGR 220	Agricultural Mechanization.....	3
AGR 226	Maintaining and Servicing of Prod. Fac...3	
AGR 262	Weed ID and Control.....	3
AGR 265	Organic Crop Production: Spring.....	3
AGR 266	Organic Crop Production: Fall.....	3

Total Credit Hours Required for A.A.S. Degree..... 67-68

Suggested Curriculum by Semesters

Applies to day offerings. Due to time restraints, evening students should expect to have fewer offerings each semester.

First Year

Fall Semester		Credits
AGR 111	.....	2
AGR 139	.....	3
ANS 110	.....	3
BIO 111	.....	4
BUS 110	.....	3
ENG 111	.....	3
		18

Spring Semester

AGR 110	.....	3
AGR 150	.....	3
AGR 214	.....	3
CIS 110	.....	3
ENG 112	.....	3
AGR Elective	.....	3
		18

Second Year

Fall Semester		
AGR 140	.....	3
AGR 210	.....	3
AGR 213	.....	3
AGR Elective	.....	3
Social/Behavioral Sciences Elective.....		3
		15

Spring Semester

AGR 170	.....	3
AGR 212	.....	3
AGR 261	.....	3
BUS 137	.....	3
WBL 111 or.....		1
WBL 112	.....	(2)
Humanities/Fine Arts Elective.....		3
		16-17

Certificate Options

Credits

Agriculture Business Certificate [C15100A]

AGR	110	Agricultural Economics	3
AGR	210	Agricultural Accounting	3
AGR	212	Farm Business Management	3
AGR	213	Agriculture Law & Finance	3
AGR	214	Agricultural Marketing	3
WBL	111	Work-Based Learning I	1 or
WBL	112	Work-Based Learning I	2

Total Credit Hours Required for Certificate Program 16-17

Agriculture Science Certificate [C15100B]

AGR	139	Introduction to Sustainable Agriculture or	
AGR	140	Agricultural Chemicals	3
AGR	170	Soil Science	3
AGR	261	Agronomy	3
ANS	110	Animal Science	3
BIO	111	General Biology I	4

Total Credit Hours Required for Certificate Program 16

Sustainable Farming Methods Certificate [C15100C]

AGR	111	Basic Farm Maintenance	2
AGR	121	Biological Pest Management	3
AGR	139	Introduction to Sustainable Agriculture ..	3
AGR	160	Plant Science	3
AGR	265	Organic Crop Production: Spring	3
AGR	266	Organic Crop Production: Fall	3

Total Credit Hours Required for Certificate Program 17

Turf and Landscape Management Certificate [C15100T]

AGR	140	Agricultural Chemicals	3
AGR	160	Plant Science	3
AGR	170	Soil Science	3
AGR	212	Farm Business Management	3
AGR	262	Weed ID and Control	3
WBL	111	Work-Based Learning I	1

Total Credit Hours Required for Certificate Program 16

Agribusiness Education

A.A.S. Degree [A15330]

Curriculum Description

The Agribusiness Education program is designed to provide students with agriculture and education foundation courses. Course work focuses on the foundational aspects of agriculture and education theory. Students will be introduced to classroom theory and management as well as soil, plant, and animal science. This curriculum will provide students with the knowledge and skills to be eligible to become extension agents, farm management specialists, 4-H specialists, crop service representatives, agri-tourism tour guides or work in agriculture sales, or environmental community education programs. Successful completion of the program will provide students with an opportunity to articulate their coursework to university programs in Agriculture Education.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

ENG 111	Writing and Inquiry	.....3
ENG 112	Writing/Research in the Disciplines	.....3
MAT 143	Quantitative Literacy	.....3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111	Art Appreciation	.....3
MUS 110	Music Appreciation	.....3
REL 110	World Religions	.....3
REL 211	Intro to Old Testament	.....3
REL 212	Intro to New Testament	.....3

Social/Behavioral Sciences (3 credits)

Take one (1) course from:

ECO 251	Principles of Microeconomics	.....3
ECO 252	Principles of Macroeconomics	.....3
HIS 111	World Civilizations I	.....3
PSY 150	General Psychology	.....3
SOC 210	Introduction to Sociology	.....3

Total General Education Required Hours 15

Major Required Courses

Agribusiness Education

AGR 110	Agricultural Economics	.....3
AGR 160	Plant Science	.....3
AGR 212	Farm Business Management	.....3
EDU 163	Classroom Mgmt. and Instruction	.....3
EDU 216	Foundations of Education3

Pesticides/Alternatives

AGR 140	Agricultural Chemicals3
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Technical Core

AGR 139	Introduction to Sustainable Agriculture3
AGR 170	Soil Science3
AGR 261	Agronomy	.....3
AGR 262	Weed ID and Control3

Work-Based Learning

WBL 112	Work-Based Learning I2
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Total Major Required Hours..... 32

Total Credit Hours Required for A.A.S. Degree..... 66

Suggested Curriculum by Semesters

Applies to day offerings. Due to time restraints, evening students should expect to have fewer offerings each semester.

First Year

Fall Semester		Credits
AGR 139	.....	3
ANS 110	.....	3
EDU 131	.....	3
ENG 111	.....	3
MAT 143	.....	3
		15

Spring Semester

AGR 110	.....	3
AGR 214	.....	3
AGR 220	.....	3
EDU 163	.....	3
ENG 112	.....	3
Humanities/Fine Arts Elective	.....	3
		18

Second Year

Fall Semester		
AGR 140	.....	3
AGR 160	.....	3
CHM 131	.....	3
CHM 131A	.....	1
EDU 271	.....	3
Social/Behavioral Sciences Elective	.....	3
		16

Spring Semester

AGR 170	.....	3
AGR 212	.....	3
AGR 261	.....	3
AGR 262	.....	3
EDU 216	.....	3
WBL 112	.....	2
		17

Air Conditioning, Heating, and Refrigeration Technology

Diploma Program [D35100]

Certificate Programs [C35100A and C35100R]

Curriculum Description

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. Students may be awarded a non-degree credential (i.e., certificate) after completing a specific portion of the diploma program.

Course and Hour Requirements

Credits

General Education Required Courses

COM 110 Introduction to Communication3

Additional General Education Requirement

Take one (1) course from:

ENG 111 Writing and Inquiry3

MAT 110 Mathematical Measurements.....3

MAT 143 Quantitative Literacy.....3

MAT 171 Precalculus Algebra4

Total General Education Required Hours6

Major Required Courses

AHR 110 Introduction to Refrigeration.....5

AHR 111 HVACR Electricity.....3

AHR 112 Heating Technology4

AHR 113 Comfort Cooling.....4

AHR 114 Heat Pump Technology.....4

AHR 133 HVAC Servicing4

AHR 160 Refrigerant Certification1

AHR 180 HVACR Customer Relations.....1

AHR 211 Residential System Design.....3

AHR 213 HVACR Building Code.....2

CIS 110 Introduction to Computers.....3

WBL 111**Work-Based Learning I.....1

WBL 115**Work-Based Learning Seminar I.....1

Total Major Required Hours..... 36

Total Credit Hours Required for Diploma Program 42

** WBL 111 and WBL 115 should be taken during the program of study after the completion of a minimum of 12 core semester hours.

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
AHR 110	.....	5
AHR 111	.....	3
AHR 112	.....	4
		12

Spring Semester

AHR 113	.....	4
AHR 114	.....	4
AHR 160	.....	1
AHR 180	.....	1
AHR 211	.....	3
		13

Summer Semester

AHR 133	.....	4
AHR 151	.....	2
		6

Second Year

Fall Semester		Credits
CIS 110	.....	3
COM 110	.....	3
WBL 111	.....	1
WBL 115	.....	1
GenEd Elective	.....	3
		11

Certificate Options

Credits

Air Conditioning, Heating, and Refrigeration Technology Certificate [C35100A]

AHR 110	Introduction to Refrigeration	5
AHR 111	HVACR Electricity.....	3
AHR 113	Comfort Cooling.....	4
AHR 114	Heat Pump Technology.....	4
AHR 160	Refrigerant Certification	1
AHR 180	HVACR Customer Relations.....	1

Total Credit Hours Required for Certificate Program 18

Refrigeration and Heating Servicing Certificate [C35100R]

AHR 110	Introduction to Refrigeration.....	5
AHR 111	HVACR Electricity.....	3
AHR 112	Heating Technology	4
AHR 133	HVAC Servicing	4
AHR 151	HVAC Duct Systems I.....	2

Total Credit Hours Required for Certificate Program 18

Basic Law Enforcement Training

Certificate Program [C55120]

Curriculum Description

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.

All students entering the Basic Law Enforcement Training program must meet the special requirements as indicated by the N.C. Criminal Justice Standards and the N.C. Sheriff's Standards Divisions of the N.C. Department of Justice. Students may not be convicted of any felony or serious misdemeanor offenses as defined by the Commission.

1. Students must contact BLET Director before completing Mitchell Community College Application.
2. The Mitchell Community College Application must be completed.
3. **Have graduated from High School, have an Adult High School Diploma, or have passed the GED** with an equivalency certificate which meets the minimum requirements set by the State of North Carolina.
4. **Meet the minimum standards for employment** as established by the NC Criminal Justice Education and Training Standards Commission and/or the NC Sheriffs' Education and Training Standards Commission which include being:
 - Minimum 20 years of age (Applicant must be 20 years of age as of the first day of class or have written authorization from the Director of the Criminal Justice Standards Division if less than 20 years old);
 - Be of good moral character;
 - Examined and certified by a licensed physician or surgeon to meet the physical requirements necessary to perform the functions of a law enforcement officer.
5. **Have not ever committed or been convicted of any of the following:**
 - a. a felony; a crime for which the punishment could have been imprisonment for more than two years; or
 - b. a crime or unlawful act for which the punishment could have been imprisonment for more than six months but less than two years and the crime or unlawful act occurred within the last five years; or
 - c. four or more crimes or unlawful acts described in "b" above regardless of the date of occurrence; or
 - d. four or more crimes or unlawful acts for which the punishment could have been imprisonment for less than six months except if the last conviction date occurred more than two years prior to the date of enrollment; or
 - e. a combination of four or more unlawful acts described in "b" or "d" above regardless of the date of conviction.
6. **Possess a valid North Carolina driver's license.**
7. **Reading test.** The NC Criminal Justice Education and Training Commission require all enrollees to take a nationally standardized reading test prior to being admitted to a BLET course. Scores indicating being proficient in reading will meet reading test requirements.
8. To be employed in this field, it is necessary to be a U.S. citizen.

ADMISSION INTERVIEW

Each applicant is interviewed by the BLET Director or designee. The interview is used to determine if the applicant meets the minimum standards for employment as established by the NC Criminal Justice Education and Training Standards Commission and/or the NC Sheriffs' Education and Training Standards Commission.

PROCEDURES FOR ADMISSION

1. Final approval to enroll in the program is contingent upon meeting admissions requirements, acceptable health certification, and proof that you meet all minimum standards of the NC Criminal Justice Education and Training Standards Commission and/or the NC Sheriffs' Education and Training Standards Commission and have the School Director concurrence.
2. Obtain a BLET application packet from the BLET Office. Packets may be obtained in one of three ways: Picked up from the BLET Office; Mailed to the applicant; or Download from Mitchell's Website (<https://www.mitchellcc.edu/basic-law-enforcement-training-blet/schedulesadditional-informationforms>).
3. Along with completed application paperwork, provide the following supporting documentation:
 - A certified copy of GED or high school transcript. High school diplomas earned through correspondence enrollment are not recognized toward the educational requirements, by North Carolina Training and Standards.
 - Copy of birth certificate.
 - Obtain Medical Examination Report, obtained less than one year prior to the class starting date, (Form F-1 and F-2) which is included in the application packet to be completed by a physician licensed to practice medicine in North Carolina.
 - Obtain a certified copy of your arrest and driving history record from the Office(s) of the Clerk of Court in every county in which you have resided since the day you turned 16 years of age. The history/

histories must be dated, by the generating agency/agencies, no more than one year prior to the class starting date.

- Copy of North Carolina driver’s license.
 - Copy of MCC reading placement test results, taken less than one year prior to the class starting date. A score placing you into course DRE 098 or above at a North Carolina Community College is necessary to enter the BLET program.
 - Obtain a Sponsorship Form which is included in the packet. (See **TUITION** below)
 - Veterans are required to supply a copy of their DD-214, “Member 4” page.
4. Application packet must be submitted no later than one month prior to the first day of class.
 5. Applicants must be punctual and present the first day of class.

TUITION (VA Approved)

Tuition is waived with a Sponsorship Form (background check) completed by a North Carolina law enforcement agency. Without a Sponsorship Form, applicants must pay in-state or out-of-state tuition. In addition, the Sponsorship Form **DOES NOT** constitute any responsibility to the law enforcement agency to hire or pay any costs associated with Basic Law Enforcement Training. Applicants may attend BLET training without a Sponsor Form but must pay full cost of in-state or out-of-state tuition.

Course and Hour Requirements

Credits

Major Required Courses

CJC 100 Basic Law Enforcement Training 20

Total Credit Hours Required for Certificate Program 20

Subject

Contact Hours

Motor Vehicle Law	20
Preparing for Court and Testifying in Court	12
Elements of Criminal Law	24
Juvenile Laws and Procedures.....	8
Arrest, Search, and Seizure/Constitutional Law.....	28
ABC Laws and Procedures	4
Techniques of Traffic Law Enforcement.....	24
Explosives and Hazardous Materials Emergencies	12
Traffic Crash Investigation	24
In-Custody Transportation	8
Crowd Management.....	12
Patrol Techniques.....	28
Law Enforcement Radio Procedures and Information Systems.....	8
Rapid Deployment.....	8
Anti-Terrorism.....	4
Responding to Victims and the Public.....	10
Domestic Violence Response	16
Ethics for Professional Law Enforcement.....	4
Indiv. with Mental Illness or Develop. Disabilities	24
Crime Prevention Techniques.....	6
Communication Skills for Law Enforcement Officers...8	
Fingerprinting and Photographing Arrestees.....	6
Field Note-Taking and Report Writing	12
Criminal Investigation	34
Interviews: Field and In-Custody	16
Controlled Substances	12
First Responder	32
Firearms	48
Law Enforcement Driver Training.....	40
Physical Fitness Training.....	54
Subject Control Arrest Techniques	40
Civil Process	24
Sheriffs’ Responsibilities: Detention Duties	4
Sheriffs’ Responsibilities: Court Duties.....	6
Course Orientation.....	2
Human Trafficking.....	2
Testing	20

Students successfully completing a Basic Law Enforcement Training Course accredited by the North Carolina Criminal Justice Education and Training Standards Commission may receive credit for the following courses: CJC-120, CJC-121, CJC-131, CJC-132, CJC-221, CJC-225, for a total of 20 semester hours that may be counted toward the Associate in Applied Science degree in Criminal Justice Technology. To qualify, students must have successfully passed the Criminal Justice Commission’s comprehensive certification exam and must have completed BLET since 1985.

Business Administration

A.A.S. Degree [A25120]

Diploma Program [D25120]

Certificate Program [C25120A, C25120B, C25120HR, C25120M and C25120X]

Curriculum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

ECO 252	Principles of Macroeconomics	3
ENG 111	Writing and Inquiry	3
HUM 115	Critical Thinking	3

Communication (3 credits)

Take one (1) course from:

COM 110	Introduction to Communication	3
COM 231	Public Speaking	3

Math (3-4 credits)

Take one (1) course from:

MAT 110	Math Measurement & Literacy	3
MAT 143	Quantitative Literacy	3
MAT 152	Statistical Methods I	4
MAT 171	Precalculus Algebra	4

Total General Education Required Hours 15-16

Major Required Courses

ACC 120	Principles of Financial Accounting	4
ACC 121	Principles of Managerial Accounting	4
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 121	Business Math	3
BUS 137	Principles of Management	3
BUS 153	Human Resource Management	3
BUS 239	Business Applications Seminar	2
BUS 260	Business Communication	3
BUS 270	Professional Development	3
CIS 110	Introduction to Computers	3
ECO 251	Principles of Microeconomics	3
MKT 120	Principles of Marketing	3
MKT 223	Customer Service	3
	Major Electives	6

(See major electives on the following page)

Total Major Required Hours 49

Major Electives

Students may select 6 credits from one of the three combinations below:

General Business Administration

BAF 110	Principles of Banking.....	3
BUS 253	Leadership and Management Skills.....	3

Human Resources Management

BUS 217	Employment Laws and Regulations.....	3
BUS 258	Compensation and Benefits.....	3

Marketing

MKT 122	Visual Merchandising.....	3
MKT 123	Fundamentals of Selling.....	3

or

Students may select 6 credits from among the three concentrations listed directly above:

BAF 110	Principles of Banking.....	3
BUS 217	Employment Laws and Regulations.....	3
BUS 253	Leadership and Management Skills.....	3
BUS 258	Compensation and Benefits.....	3
MKT 122	Visual Merchandising.....	3
MKT 123	Fundamentals of Selling.....	3

Total Credit Hours Required for A.A.S. Degree..... 64-65

Suggested Curriculum by Semesters

Applies to day offerings. Due to time restraints, evening students should expect to have fewer offerings each semester.

First Year

Fall Semester	Credits
BUS 110	3
BUS 137	3
CIS 110	3
ENG 111	3
MKT 120	3
	15

Spring Semester

BUS 115	3
BUS 121	3
BUS 153	3
ECO 251	3
MAT 110 or	3
MAT 143 or	(3)
MAT 152 or	(4)
MAT 171	(4)
	15-16

Summer Semester

Social/Behavioral Sciences Elective.....	3
	3

Second Year

Fall Semester	Credits
ACC 120	4
BUS 260	3
MKT 223	3
Humanities/Fine Arts Elective	3
Major Elective.....	3
	16

Spring Semester

ACC 121	4
BUS 239	2
BUS 270	3
COM 110 or	3
COM 231	3
Major Elective.....	3
	15

Diploma [D25120]

		Credits	
ACC	120	Principles of Financial Accounting.....	4
ACC	121	Principles of Managerial Accounting.....	4
BUS	110	Introduction to Business.....	3
BUS	115	Business Law I.....	3
BUS	137	Principles of Management	3
BUS	239	Business Applications Seminar.....	2
CIS	110	Introduction to Computers.....	3
COM	110	Introduction to Communication.....	3
ECO	251	Principles of Microeconomics.....	3
ECO	252	Principles of Macroeconomics	3
ENG	111	Writing and Inquiry	3
MKT	120	Principles of Marketing.....	3
Total Credit Hours Required for Diploma Program			37

Certificate Options

		Credits	
Management Certificate [C25120A]			
BUS	110	Introduction to Business.....	3
BUS	115	Business Law I.....	3
BUS	121	Business Math.....	3
BUS	137	Principles of Management	3
BUS	153	Human Resource Management.....	3
ECO	251	Principles of Microeconomics or	
ECO	252	Principles of Macroeconomics	3
Total Credit Hours Required for Certificate Program			18

Banking Certificate [C25120B]

ACC	120	Principles of Financial Accounting.....	4
BAF	110	Principles of Banking.....	3
BUS	121	Business Math.....	3
BUS	137	Principles of Management.....	3
MKT	123	Fundamentals of Selling	3
Total Credit Hours Required for Certificate Program			16

Business Office Certification [C25120X]

BUS	110	Introduction to Business.....	3
CIS	110	Introduction to Computers.....	3
BUS	121	Business Math.....	3
OST	134	Text Entry & Formatting	3
OST	135	Adv Text Entry & Format	3
OST	181	Office Procedures.....	3
Total Credit Hours Required for Certificate Program.....			18

Marketing Certificate [C25120M]

BUS	110	Introduction to Business.....	3
BUS	137	Principles of Management.....	3
ECO	251	Principles of Microeconomics or	
ECO	252	Principles of Macroeconomics	3
MKT	120	Principles of Marketing	3
MKT	122	Visual Merchandising.....	3
MKT	123	Fundamentals of Selling	3
Total Credit Hours Required for Certificate Program			18

Human Resource Management Certificate [C25120HR]

BUS	115	Business Law I.....	3
BUS	137	Principles of Management.....	3
BUS	153	Intro. to Human Resource Management....	3
BUS	217	Employment Laws and Regulations.....	3
BUS	258	Compensation and Benefits.....	3
BUS	270	Professional Development.....	3
Total Credit Hours Required for Certificate Program			18

Computer-Integrated Machining

A.A.S. Degree [A50210]

Certificate Program [C50210]

Curriculum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product. Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

MAT 110 Math Measurement and Literacy3

English/Communications (6 credits)

Take one group from the following:

Group 1

ENG 111 Writing and Inquiry3

ENG 114 Professional Research and Reporting.....3

Group 2

ENG 111 Writing and Inquiry3

COM 231 Public Speaking.....3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111 Art Appreciation3

COM 140 Intro to Intercultural Communication3

HUM 115 Critical Thinking3

MUS 110 Music Appreciation.....3

REL 110 World Religions.....3

Social/Behavioral Sciences (3 credits)

Take one (1) course from:

ECO 251 Principles of Microeconomics.....3

HIS 111 World Civilizations I.....3

HIS 131 American History I.....3

PSY 150 General Psychology.....3

SOC 210 Introduction to Sociology.....3

Total General Education Required Hours 15

Major Required Courses

DFT 151 CAD I3

DFT 154 Intro Solid Modeling3

ISC 112 Industrial Safety2

MAC 114 Intro to Metrology2

MAC 122 CNC Turning2

MAC 124 CNC Milling.....2

MAC 131 Blueprint Reading/Mach I.....2

MAC 132 Blueprint Reading/Mach II.....2

MAC 141 Machining Applications I.....4

MAC 142 Machining Applications II4

MAC 151 Machining Calculations.....2

MAC 152 Advanced Machining Calculations2

MAC 222 Advanced CNC Turning.....2

MAC 224 Advanced CNC Milling2

MAC 232 CAM: CNC Milling3

MAC 234 Advanced Multi-Axis Machining3

MEC 110 Intro to CAD/CAM.....2

MEC 145	Manufacturing Materials I.....	3
MEC 231	Computer-Aided Manufacturing I.....	3
MEC 232	Computer-Aided Manufacturing II.....	3

Total Major Required Hours..... 51

Total Credit Hours Required for A.A.S. Degree..... 66

Suggested Curriculum by Semesters

First Year

Fall Semester	Credits
MAC 124	2
MAC 131	2
MAT 110	3
MAC 141	4
MAC 151	2
MEC 110	2
	15

Spring Semester

MAC 132	2
MAC 142	4
ENG 111	3
MAC 152	2
MEC 231	3
MAC 122	2
	16

Summer Semester

ENG 114 or	
COM 231	3
ART 111	3
SOC 210	3
	9

Second Year

Fall Semester	Credits
MAC 232	3
DFT 151	3
DFT 154	3
ISC 112	3
MAC 114	2
	13

Spring Semester

MAC 234	3
MEC 232	3
MEC 145	3
MAC 222	2
MAC 224	2
	13

Computer Integrated Machining Certificate [C50210]

ISC 112	Industrial Safety.....	2
MAC 122	CNC Turning.....	2
MAC 124	CNC Milling.....	2
MAC 131	Blueprint Reading/Mach I.....	2
MAC 151	Machining Calculations.....	2
MEC 110	Intro to CAD/CAM.....	2

Total Credit Hours Required for Certificate Program 12

Cosmetology

Diploma Program [D55140]

Curriculum Description

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and related businesses.

Course and Hour Requirements

Credits

General Education Required Courses

COM 110	Introduction to Communication.....	3
PSY 150	General Psychology.....	3

Total General Education Required Hours6

Major Required Courses

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

Total Major Required Hours..... 41

Total Credit Hours Required for Diploma Program 47

Suggested Curriculum by Semesters

Fall Semester

Credits

COS 111	.....	4
COS 112	.....	8
		12

Spring Semester

COS 113	.....	4
COS 114	.....	8
		12

Summer Semester

COM 110	.....	3
PSY 150	.....	3
		6

Fall Semester

COS 115	.....	4
COS 116	.....	4
COS 117	.....	2
COS 118	.....	7
		17

Cosmetology Instructor

Certificate Program [C55160]

Curriculum Description

The Cosmetology Instructor curriculum provides a course of study for learning the skills needed to teach the theory and practice of cosmetology as required by the North Carolina Board of Cosmetic Arts.

Course work includes requirements for becoming an instructor, introduction to teaching theory, methods and aids, practice teaching, and development of evaluation instruments.

Graduates of the program may be employed as cosmetology instructors in public or private education and business.

Course and Hour Requirements

Credits

General Education Required Courses

None

Major Required Courses

COS 271	Instructor Concepts I.....	5
COS 272	Instructor Practicum I.....	7
COS 273	Instructor Concepts II.....	5
COS 274	Instructor Practicum II.....	7
Total Major Required Hours.....		24

Total Credit Hours Required for Certificate Program 24

Suggested Curriculum by Semesters

Fall Semester	Credits
COS 271	5
COS 272	7
	12

Spring Semester	Credits
COS 273	5
COS 274	7
	12

Criminal Justice Technology

A.A.S. Degree [A55180]

Certificate Programs [C55180B, C55180E, C55180I, C55180L]

Curriculum Description

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system's role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

COM 231	Public Speaking.....	3
ENG 111	Writing and Inquiry	3
ENG 114	Professional Research and Reporting.....	3
MAT 143	Quantitative Literacy	3
POL 130	State and Local Government.....	3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111	Art Appreciation	3
MUS 110	Music Appreciation.....	3
HUM 115	Critical Thinking	3

Total General Education Required Hours 18

Major Required Courses

CIS 110	Introduction to Computers.....	3
CJC 111	Introduction to Criminal Justice.....	3
CJC 112	Criminology.....	3
CJC 113	Juvenile Justice.....	3
CJC 120	Interviews/Interrogations.....	2
CJC 131	Criminal Law	3
CJC 132	Court Procedure and Evidence	3
CJC 141	Corrections.....	3
CJC 151	Intro to Loss Prevention.....	3
CJC 212	Ethics and Community Relations.....	3
CJC 221	Investigative Principles.....	4
CJC 225	Crisis Intervention	3
CJC 231	Constitutional Law	3
POL 120	American Government	3
PSY 150	General Psychology.....	3

Other Required Courses

Select 2-3 SCH from

CJC 121	Law Enforcement Operations or.....	3
WBL 111**	Work-Based Learning I.....	1
WBL 115**	Work-Based Learning Seminar I.....	1

Total Major Required Hours..... 47-48

Total Credit Hours Required for A.A.S. Degree..... 65-66

Suggested Curriculum by Semesters

Criminal Justice AAS Program (NO BLET)

First Year

Fall Semester	Credits
CJC 111	3
CJC 112	3
CJC 120	2
CJC 131	3
ENG 111	3
PSY 150	3
	17

Spring Semester

CIS 110	3
CJC 113	3
CJC 132	3
CJC 141	3
ENG 114	3
POL 120	3
	18

Second Year

Fall Semester

CJC 151	3
CJC 212	3
CJC 225	3
COM 231	3
POL 130	3
	15

Second Year

Spring Semester

CJC 121	3
CJC 221	4
CJC 231	3
MAT 143	3
Humanities Elective	3
	16

Criminal Justice AAS Suggested Degree Tracks if taking BLET

First Year

Fall Semester	Credits
CJC 111	3
CJC 112	3
ENG 111	3
POL 130	3
PSY 150	3
	15

Spring Semester

CJC 113	3
CJC 141	3
CJC 231	3
CIS 110	3
POL 120	3
Humanities Elective	3
	18

Second Year

Fall Semester

CJC 151	3
CJC 212	3
COM 231	3
ENG 114	3
MAT 143	3
	15

BLET Program includes the following

CJC 120	
CJC 121	
CJC 131	
CJC 132	
CJC 221	
CJC 225	.....18 credits

Students successfully completing a Basic Law Enforcement Training Course accredited by the North Carolina Criminal Justice Education and Training Standards Commission may receive credit for the following courses: CJC-120, CJC-121, CJC-131, CJC-132, CJC-221, CJC-225, for a total of 18 semester hours that may be counted toward the Associate in Applied Science degree in Criminal Justice Technology. To qualify, students must have successfully passed the Criminal Justice Commission's comprehensive certification exam and must have completed BLET since 1985.

Certificate Options

Credits

Investigations Certificate [C55180I]

ENG 111	Writing and Inquiry	.....3
CJC 111	Intro to Criminal Justice	.....3
CJC 121	Law Enforcement Operations	.....3
CJC 212	Ethics & Community Relations	.....3
CJC 231	Constitutional Law	.....3

Total Credit Hours Required for Certificate Program 12

BLET Preparation Certificate [C55180B]

CJC 111	Intro to Criminal Justice	.....3
CJC 112	Criminology	.....3
CJC 113	Juvenile Justice	.....3
CJC 212	Ethics & Community Relations	.....3

Total Credit Hours Required for Certificate Program 12

Loss Prevention Certificate [C55180L]

CJC 120	Interviews/Interrogations	.....2
CJC 132	Court Procedure & Evidence	.....3
CJC 151	Intro to Loss Prevention	.....3
CJC 221	Investigative Principles	.....4

Total Credit Hours Required for Certificate Program 12

Essentials of the Criminal Justice System Certificate [C55180E]

CJC 111	Intro to Criminal Justice	.....3
CJC 112	Criminology	.....3
CJC 131	Criminal Law	.....3
CJC 141	Corrections	.....3
CJC 151	Intro to Loss Prevention	.....3

Total Credit Hours Required for Certificate Program 15

Culinary Arts

A.A.S. Degree [A55150]

Certificate Programs [C55150C and C55150S]

Curriculum Description

This curriculum provides specific training required to prepare students to assume positions as trained culinary professionals in a variety of foodservice settings including full service restaurants, hotels, resorts, clubs, catering operations, contract foodservice and health care facilities.

Students will be provided theoretical knowledge/practical applications that provide critical competencies to meet industry demands, including environmental stewardship, operational efficiencies and professionalism. Courses include sanitation/safety, baking, garde manger, culinary fundamentals/production skills, nutrition, customer service, purchasing/cost control, and human resource management.

Graduates should qualify for entry-level opportunities including prep cook, line cook, and station chef. American Culinary Federation certification may be available to graduates. With experience, graduates may advance to positions including sous chef, pastry chef, executive chef, or foodservice manager

Course and Hour Requirements

Credits

General Education Required Courses

COM	231	Public Speaking.....	3
ECO	251	Principles of Microeconomics.....	3
ENG	111	Writing and Inquiry	3
HUM	115	Critical Thinking	3
MAT	110	Math Measurement & Literacy	3

Total General Education Required Hours 15

Major Required Courses

CUL	110	Sanitation & Safety.....	2
CUL	112	Nutrition for Foodservice.....	3
CUL	130	Menu Design.....	2
CUL	135	Food & Beverage Service.....	2
CUL	140	Culinary Skills.....	5
CUL	160	Baking I.....	3
CUL	160A	Baking I Lab	1
CUL	170	Garde Manger I.....	3
CUL	230	Global Cuisines.....	5
CUL	240	Culinary Skills II.....	5
CUL	260	Baking II	3
CUL	260A	Baking II Lab	1
CUL	270	Garde Manger II.....	3
CUL	283	Farm-To-Table.....	5
HRM	220	Cost Control-Food & Beverage.....	3
HRM	245	Human Resource Management-Hospitality..	3
WBL	111	Work-Based Learning I.....	1
WBL	121	Work-Based Learning II.....	1

Total Major Required Hours..... 51

Total Credit Hours Required for A.A.S. Degree..... 66

Suggested Curriculum by Semesters

First Year

Fall Semester

Credits

CUL	110	.....	2
CUL	135	.....	2
CUL	140	.....	5
ENG	111	.....	3
HRM	220	.....	3

15

Spring Semester		Credits
COM 231	.....	3
CUL 112	.....	3
CUL 160	.....	3
CUL 240	.....	5
MAT 110	.....	3
		17

**Second Year
Fall Semester**

CUL 170	.....	3
CUL 230	.....	5
CUL 260	.....	3
HUM 115	.....	3
WBL 111	.....	1
		15

Spring Semester

CUL 130	.....	2
CUL 270	.....	3
CUL 283	.....	5
ECO 251	.....	3
HRM 245	.....	3
WBL 121	.....	1
		17

Certificate Options

Credits

Culinary Arts Certificate [C55150C]

CUL 170	Garde Manger I.....	3
CUL 270	Garde Manger II.....	3
CUL 283	Farm-To-Table.....	5
WBL 111	Work-Based Learning I.....	1

Total Credit Hours Required for Certificate Program 12

Service Management Certificate [C55150S]

CUL 110	Sanitation & Safety.....	2
CUL 112	Nutrition for Foodservice.....	3
CUL 135	Food & Beverage Service.....	2
CUL 140	Culinary Skills.....	5
CUL 240	Culinary Skills II.....	5

Total Credit Hours Required for Certificate Program 17

Dietetic Technician

A.A.S Degree [A45310]

Curriculum Description

The Dietetic Technician program prepares individuals to promote optimal health through proper nutrition by providing personalized services to meet client's needs, and ensure balanced diets. Dietetic Technicians work under the supervision of a registered, licensed dietitian.

Course work includes content related to food, nutrition, communication, and management. The physical, biological, behavioral, and social sciences support these areas.

Employment opportunities include childcare centers, hospitals, correctional centers, public health agencies, retirement centers, rehabilitation centers, hospices, clinics, nursing homes, home care programs, or medical offices.

Dietetic Technician is an Associate Degree program offered in conjunction with Gaston College who awards the degree. Students may take courses marked with an asterisk (*) at Mitchell Community College. All DET technical courses are offered online through Gaston College.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

*ENG 111	Writing and Inquiry	3
*ENG 112	Writing/Research in the Disciplines	3
*MAT 143	Quantitative Literacy	3
	<i>(or higher level math)</i>	
*PSY 150	General Psychology	3

Humanities (3 credits)

Take one (1) course from:

*ART 111	Art Appreciation	3
*ART 114	Art History Survey I	3
*ART 115	Art History Survey II	3
*ENG 231	American Literature I	3
*ENG 232	American Literature II	3
*MUS 110	Music Appreciation	3
*MUS 112	Introduction to Jazz	3
*PHI 215	Philosophical Issues	3
*PHI 240	Introduction to Ethics	3

Total General Education Required Hours 15

Major Required Courses

*BIO 168	Anatomy and Physiology I	4
*BIO 169	Anatomy and Physiology II	4
*BIO 275	Microbiology	4
CHM 130	General, Organic, and Biochemistry and ..	3
CHM 130A	General, Organic, and Biochemistry Lab or...	1
*CHM 131	Introduction to Chemistry and	3
*CHM 131A	Introduction to Chemistry Lab	1
*CHM 132	Organic and Biochemistry	4
CUL 110	Sanitation and Safety	2
DET 112	Introduction to Nutrition	3
DET 113	Basic Food Science	3
DET 114	Supervised Practice I	2
DET 116	Food Mgt Systems and Nutrition Concepts.	3
DET 117	Foodservice Management Systems	5
DET 118	Supervised Practice II	4
DET 221	Nutrition Assessment and Skills Dev	3
DET 222	Nutrition Counseling and Education	3
DET 224	Supervised Practice III	2
DET 225	Profession of Dietetics	2
DET 226	Medical Nutrition Therapy	3
DET 227	Dietetics Overview	1
DET 228	Supervised Practice IV	2
*WBL 111	Work-Based Learning I	1

Academic Transition (1 Credit)

*ACA 111	College Student Success or	
*ACA 122	College Transfer Success	1

Total Major Required Hours..... 56

Total Credit Hours Required for A.A.S. Degree..... 71

Suggested Curriculum by Semesters

First Year

Fall Semester	Credits
*BIO 168	4
DET 112	3
DET 113	3
DET 114	2
*ENG 111	3
MAT 143	3
	18

Spring Semester

*BIO 169	4
CUL 110	2
DET 116	3
DET 117	5
DET 118	4
*PSY 150	3
	21

Summer Semester

*BIO 275	4
*ENG 112	3
	7

Second Year

Fall Semester

CHM 130	3
CHM 130A	1
DET 221	3
DET 222	3
DET 223	3
DET 224	2
*ENG 112	3
	18

Spring Semester

DET 225	2
DET 226	3
DET 227	1
DET 228	2
*PSY 241	3
*WBL 111	1
*Humanities/Fine Arts Elective	3
	15

Digital Media Technology

A.A.S. Degree [A25210]

Certificate Program [C25210, C25120E]

Curriculum Description

The Digital Media program prepares students for entry-level jobs in the digital design and multimedia industry. Students learn to synthesize multimedia, hypertext, computer programming, information architecture, and client/server technologies using both Internet and non-network-based media.

Students develop skills in communication, critical thinking, and problem solving as well as interface design, multimedia formats, application programming, data architecture, and client/server technologies. The program develops technical skills through practical applications that employ current and emerging standards and technologies.

Graduates should qualify for employment as web designers, graphic artists/designers, multimedia specialists, web developers, web content specialists, media specialists, information specialists, digital media specialists, animation specialists, interface designers, and many new jobs yet to be defined in this expanding field. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

ART 114	Art History Survey I.....	3
ENG 111	Writing and Inquiry	3

Communications (3 credits)

Take one (1) course from:

COM 110	Introduction to Communication.....	3
COM 231	Public Speaking.....	3

Math (3-4 credits)

Take one (1) course from:

MAT 110	Math Measurement and Literacy	3
MAT 171	Precalculus Algebra.....	4

Social/Behavioral Sciences (3 credits)

Take one (1) course from:

PSY 150	General Psychology.....	3
SOC 210	Introduction to Sociology.....	3

Total General Education Required Hours 15-16

Major Required Courses

ART 115	Art History Survey II.....	3
ART 261	Photography I.....	3
BUS 110	Introduction to Business or	
MKT 120	Principles of Marketing.....	3
DME 110	Introduction to Digital Media.....	3
DME 115	Graphic Design Tools.....	3
DME 120	Introduction to Multimedia Application..	3
DME 130	Digital Animation I.....	3
DME 140	Intro to Audio/Video Media.....	3
DME 210	User Interface Design	3
DME 215	Advanced Graphic Design Tools.....	3
DME 270	Professional Practice Digital Media.....	3
DME 285	Systems Project	3
GRD 110	Typography I.....	3
GRD 141	Graphic Design I	4
GRD 281	Design of Advertising	2
WEB 140	Web Development Tools	3
WEB 210	Web Design	3
WEB 214	Social Media.....	3

Total Major Required Hours..... 54

Total Credit Hours Required for A.A.S. Degree..... 69

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
DME 110	.....	3
DME 115	.....	3
ENG 111	.....	3
GRD 110	.....	3
GRD 141	.....	4
		16

Spring Semester

ART 114	.....	3
DME 120	.....	3
DME 210	.....	3
DME 215	.....	3
MAT 110 or	.....	3
MAT 171	.....(4)	3
WEB 140	.....	3
		18-19

Second Year

Fall Semester		Credits
ART 115	.....	3
ART 261	.....	3
BUS 110 or	.....	3
MKT 120	.....	3
DME 130	.....	3
GRD 281	.....	2
WEB 210	.....	3
		17

Spring Semester

COM 110 or	.....	3
COM 231	.....	3
DME 140	.....	3
DME 270	.....	3
DME 285	.....	3
PSY 150 or	.....	3
SOC 210	.....	3
WEB 214	.....	3
		18

Certificate Option

Credits

Digital Media [C25210]

DME 110	Introduction to Digital Media.....	3
DME 115	Graphic Design Tools.....	3
DME 120	Introduction to Multimedia Application.....	3
WEB 140	Web Development Tools.....	3
WEB 210	Web Design.....	3

Total Credit Hours Required for Certificate Program 15

Digital Media Technology Essentials [C25210E]

DME 110	Intro to Digital Media.....	3
DME 115	Graphic Design Tools.....	3
DME 120	Intro to Multimedia Appl.....	3
DME 130	Digital Animation I.....	3

Total Credit Hours for Certificate 12

Early Childhood Education

A.A.S. Degree [A55220C, A55220L, A55220NL]

Diploma Program [D55220]

Certificate Programs [C55220A, C55220E, C55220P and C55220S]

Curriculum Description

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.

Please contact the college and program coordinator for special requirements to enroll in this program. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

Common General Education Required Courses

Required Courses

MAT	143	Quantitative Literacy	.....3
COM	231	Public Speaking	.....3
ENG	111	Writing and Inquiry	.....3
PSY	150	General Psychology	.....3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART	111	Art Appreciation	.....3
ART	114	Art History Survey I	.....3
MUS	110	Music Appreciation	.....3
PHI	215	Philosophical Issues	.....3
PHI	240	Introduction to Ethics	.....3

Total Common General Education Required Hours 15

Common Major Required Courses

EDU	119	Introduction to Early Childhood Education	...4
EDU	131	Child, Family, and Community	.....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	221	Children with Exceptionalities	.....3
EDU	234	Infants, Toddlers, and Twos	.....3
EDU	280	Language and Literacy Experiences	.....3
EDU	284	Early Childhood Capstone Practices	.....4

Total Common Major Required Hours..... 35

Common Major Electives

3 credits required.

EDU	154	Social/Emotional/Behavioral Dev	.....3
EDU	223	Specific Learning Disabilities	.....3
EDU	247	Sensory and Physical Disabilities	.....3
EDU	248	Developmental Delays	.....3
EDU	281	Inst. Strategies/Reading and Writing	.....3
EDU	288	Adv. Issues/Early Childhood Education	...2

Total Common Required Hours 53

Additional Courses Required

Credits

Early Childhood Education A.A.S. Degree [A55220C]

CIS	110	Introduction to Computers.....	3
EDU	126	Early Childhood Seminar I.....	2
EDU	162	Observation and Assessment in ECE.....	3
EDU	259	Curriculum Planning.....	3

Total Credit Hours Required for A55220C A.A.S. Degree 64

Early Education B-K Licensure Transfer [A55220L]

BIO	111	General Biology I.....	4
CHM	151	General Chemistry I.....	4
ENG	112	Writing/Research in the Disciplines.....	3
SOC	210	Introduction to Sociology.....	3
EDU	216	Foundations of Education.....	3
EDU	250	Teacher Licensure Preparation.....	3

Total Credit Hours Required for A55220L A.A.S. Degree..... 73

Early Education Non-Teaching Licensure Transfer [A55220NL]

BIO	111	General Biology I.....	4
CHM	151	General Chemistry I.....	4
ENG	112	Writing/Research in the Disciplines.....	3
SOC	210	Introduction to Sociology.....	3
EDU	261	Early Childhood Administration I.....	3
EDU	262	Early Childhood Administration II.....	3

Total Credit Hours Required for A55220NL A.A.S. Degree 73

Suggested Curriculum by Semesters—Early Childhood Education A.A.S. Degree [A55220C]

First Year

Fall Semester		Credits
EDU	119	..... 4
EDU	144	..... 3
EDU	145	..... 3
EDU	151	..... 3
PSY	150	..... 3
		16

Spring Semester

EDU	146	..... 3
EDU	153	..... 3
EDU	234	..... 3
ENG	111	..... 3
MAT	143	..... 3
		15

Summer Semester

COM	231	..... 3
EDU	221	..... 3
Humanities Elective		..... 3
		9

Second Year

Fall Semester		Credits
CIS	110	..... 3
EDU	131	..... 3
EDU	162	..... 3
EDU	280	..... 3
		12

Spring Semester		Credits
EDU 126	.....	2
EDU 259	.....	3
EDU 284	.....	4
Major Elective	.....	3
		12

Suggested Curriculum by Semesters—Early Education B-K Licensure Transfer [A55220L]

First Year		Credits
Fall Semester		
EDU 119	.....	4
EDU 144	.....	3
EDU 145	.....	3
EDU 151	.....	3
SOC 210	.....	3
		16

Spring Semester		
BIO 111	.....	4
EDU 146	.....	3
EDU 153	.....	3
EDU 234	.....	3
ENG 111	.....	3
		16

Summer Semester		
COM 231	.....	3
ENG 112	.....	3
MAT 143	.....	3
		9

Second Year		Credits
Fall Semester		
EDU 131	.....	3
EDU 221	.....	3
EDU 280	.....	3
PSY 150	.....	3
Humanities Elective	.....	3
		15

Spring Semester		
CHM 151	.....	4
EDU 216	.....	3
EDU 250	.....	3
EDU 284	.....	4
Major Elective	.....	3
		17

Suggested Curriculum by Semesters—Early Education Non-Teaching Licensure Transfer [A55220NL]

First Year

Fall Semester	Credits
EDU 119	4
EDU 144	3
EDU 145	3
EDU 151	3
SOC 210	3
	16

Spring Semester

BIO 111	4
EDU 131	3
EDU 146	3
EDU 234	3
ENG 111	3
	16

Summer Semester

CHM 151	4
ENG 112	3
MAT 143	3
PSY 150	3
	13

Second Year

Fall Semester

EDU 153	3
EDU 261	3
EDU 262	3
Major Elective	3
Humanities Elective.....	3
	15

Spring Semester

COM 231	3
EDU 221	3
EDU 280	3
EDU 284	4
	13

Diploma [D55220]

	Credits
COM 231 Public Speaking.....	3
EDU 119 Introduction to Early Childhood Education...	4
EDU 131 Child, Family, and Community.....	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 162 Observation and Assessment in ECE.....	3
EDU 221 Children with Exceptionalities.....	3
EDU 280 Language and Literacy Experiences.....	3
ENG 111 Writing and Inquiry.....	3

Total Credit Hours Required for Diploma Program 37

Certificate Options

Credits

Early Childhood Administration Certificate [C55220A]

EDU 119	Introduction to Early Childhood Education...	4
EDU 146	Child Guidance.....	3
EDU 153	Health, Safety, and Nutrition.....	3
EDU 261	Early Childhood Administration I.....	3
EDU 262	Early Childhood Administration II.....	3

Total Credit Hours Required for Certificate Program 16

Early Childhood Education Certificate [C55220E]

EDU 119	Introduction to Early Childhood Education...	4
EDU 131	Child, Family, and Community.....	3
EDU 146	Child Guidance.....	3
EDU 151	Creative Activities.....	3
EDU 153	Health, Safety, and Nutrition.....	3

Total Credit Hours Required for Certificate Program 16

Parent Educator's Certificate [C55220P]

EDU 131	Child, Family, and Community.....	3
EDU 144	Child Development I.....	3
EDU 145	Child Development II.....	3
EDU 146	Child Guidance.....	3
EDU 234	Infants, Toddlers, and Twos.....	3
EDU 288	Adv. Issues/Early Childhood Education...	2

Total Credit Hours Required for Certificate Program 17

Special Education Certificate [C55220S]

EDU 131	Child, Family, & Community.....	3
EDU 154	Social/Emotional/Behavioral Development..	3
EDU 221	Children with Exceptionalities	3
EDU 223	Specific Learning Disabilities	3
EDU 247	Sensory & Physical Disabilities	3
EDU 248	Developmental Delays.....	3

Total Credit Hours Required for Certificate Program 18

Electrical Systems Technology

A.A.S. Degree [A35130]

Diploma Program [D35130]

Certificate Program [C35130E]

Curriculum Description

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

COM 110 Introduction to Communication.....3

ENG 111 Writing and Inquiry3

Natural Sciences/Math (3-4 credits)

Take one set from:

Set 1

MAT 110 Math Measurement & Literacy3

Set 2

PHY 110 Conceptual Physics.....3

PHY 110A Conceptual Physics Lab1

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111 Art Appreciation3

ART 114 Art History Survey I3

COM 140 Intro to Intercultural Communication3

ENG 125 Creative Writing I.....3

MUS 110 Music Appreciation.....3

PHI 215 Philosophical Issues.....3

PHI 240 Introduction to Ethics3

REL 110 World Religions.....3

REL 211 Introduction to Old Testament.....3

REL 212 Introduction to New Testament.....3

Social/Behavioral Sciences (3 credits)

Take one (1) course from:

ECO 251 Principles of Microeconomics.....3

ECO 252 Principles of Macroeconomics3

HIS 111 World Civilizations I3

HIS 131 American History I.....3

POL 120 American Government.....3

POL 130 State and Local Government.....3

POL 210 Introduction to Sociology3

PSY 150 General Psychology.....3

SOC 210 Introduction to Sociology3

Total General Education Required Hours 15-16

Major Required Courses

ATR 214 Advanced PLCs.....4

CIS 110 Introduction to Computers.....3

ELC 113 Residential Wiring4

ELC 114 Commercial Wiring.....4

ELC 115 Industrial Wiring4

ELC 117 Motors and Controls.....4

ELC 119 NEC Calculations.....2

ELC 131 Circuit Analysis I.....4

ELC 131A Circuit Analysis I Lab1

ELC 133	Circuit Analysis II.....	4
ELC 135	Electrical Machines	3
ELC 215	Electrical Maintenance	3
ELN 131	Analog Electronics I.....	4
ELN 133	Digital Electronics.....	4
ELN 260	Programmable Logic Controllers	4
	Major Electives	2-3

Total Major Hours..... 54-55

Total Credit Hours Required for A.A.S. Degree..... 69-71

Major Electives

Select 2-3 credits

DFT 151	CAD I.....	3
HYD 110	Hydraulics/Pneumatics I.....	3
ISC 112	Industrial Safety	2
WBL 111**	Work-Based Learning I.....	1
WBL 115**	Work-Based Learning Seminar I.....	1

***WBL 111 and WBL 115 should be taken during the program of study after the completion of a minimum of 12 core semester hours.*

Suggested Curriculum by Semesters for Completion of Associates

First Year

Fall		Credits
ELC 113	.....	4
ELC 119	.....	2
ELC 131	.....	4
MAT 110	.....	3
COM 110	.....	3
		16

Spring

ELC 114	.....	4
ELC 115	.....	4
ELC 135	.....	3
ELC 131A	.....	1
ENG 111	.....	3
		15

Summer

CIS 110	.....	3
ELC 117	.....	4
		7

Second Year

Fall		
ELC 128	.....	3
ELC 215	.....	3
ELN 131	.....	4
ELN 133	.....	4
		14

Spring

ELN 260	.....	4
Humanities Elective	.....	3
Major Elective	.....	2-3
Social/Behavioral Sciences Elective.....		3
		12-13

Diploma [D35130]

Credits

General Education Required Courses

COM 110	Introduction to Communication.....	3
MAT 110	Math Measurement & Literacy or	(3)
PHY 110	Conceptual Physics.....	3
PHY 110A	Conceptual Physics Lab	1

Total General Education Required Hours6-7

Major Required Courses

ATR	214	Advanced PLCs	4
ELC	113	Residential Wiring	4
ELC	114	Commercial Wiring	4
ELC	115	Industrial Wiring	4
ELC	117	Motors and Controls	4
ELC	119	NEC Calculations	2
ELC	131	Circuit Analysis I	4
ELC	131A	Circuit Analysis I Lab	1
ELC	215	Electrical Maintenance	3
ELN	133	Digital Electronics	4
ELN	260	Programmable Logic Controllers	4

Total Major Required Hours..... 38

Total Credit Hours Required for Diploma Program 44

Suggested Curriculum by Semesters for Completion of Diploma

These courses are offered as day-options. Recommended sequence after completing the Electrical Wiring Certificate.

Summer Semester		Credits
COM	110	3
ELC	117	4
		7

Fall Semester		
ELN	260	4
ELN	133	4
MAT	110	3
		11-12

Spring Semester		
ATR	214	4
ELC	131A	1
ELC	215	3
		8

Electrical Systems Certificate Option [C35130E]

		Credits
ELC	113	4
ELC	114	4
ELC	115	4
ELC	119	2
ELC	131	4

Total Credits Hours Required for Certificate Program 18

Suggested Curriculum by Semesters for Certificate

Evening Certificate Option

Fall Semester		
ELC	113	4
ELC	119	2
ELC	131	4
		10

Spring Semester		
ELC	114	4
ELC	115	4
		8

Electronics Engineering Technology

A.A.S. Degree [A40200]

Diploma Program [D40200R]

Certificate Programs [C40200A, C40200B, C40200R and C40200N]

This program has two tracks—a Technical Track and a University Transfer Track. The Technical Track is designed to give students the education and skills needed to get a job as an electronics technicians/technologist in the local electronics industry. The University Transfer track is transferable to four-year schools in the UNC system that offer a Bachelor of Science in Electronics Engineering Technology degree. Graduates who complete a bachelor's degree in Electronics Engineering Technology should qualify for employment as an electrical or electronics engineer.

Curriculum Description

The Electronics Engineering Technology curriculum is designed to prepare students to apply basic engineering principles and technical skills to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems through the study and application of principles from mathematics, natural sciences, and technology.

Course work includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, microprocessors, lab equipment and procedures, electrical machines, and/or programmable logic controllers.

Graduates should qualify for employment as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

COM 231	Public Speaking.....	3
ENG 111	Writing and Inquiry	3
HUM 115	Critical Thinking	3

Social/Behavioral Sciences (3 credits)

Take one (1) course from:

ECO 251	Principles of Microeconomics.....	3
SOC 210	Introduction to Sociology	3

Total General Education Required Hours 12

Major Required Courses

CSC 134	C++ Programming.....	3
EGR 131	Intro to Electronics Tech.....	2
ELC 131	Circuit Analysis I.....	4
ELC 133	Circuit Analysis II.....	4
ELN 131	Analog Electronics I	4
ELN 133	Digital Electronics.....	4
ELN 232	Introduction to Microprocessors.....	4
ELN 260	Programmable Logic Controllers	4
MAT 171	Precalculus Algebra.....	4
MAT 172	Precalculus Trigonometry.....	4
PHY 151	College Physics I	4

Other Major Requirements

Credits

Take 12 Credits from:

ACA	122	College Transfer Success	1
DFT	170	Engineering Graphics.....	3
ELC	117	Motors and Controls.....	4
ELC	135	Electrical Machines	3
ELC	215	Electrical Maintenance	3
MAT	271	Calculus I.....	4
MAT	272	Calculus II	4
PHY	152	College Physics II.....	4
WBL	111	Work-Based Learning I.....	1
WBL	115	Work-Based Learning Seminar I	1

Total Major Required Hours..... 49

Total Credit Hours Required for A.A.S. Degree..... 65

Suggested Curriculum by Semesters for Technical Track

Applies to day offerings.

First Year

Fall Semester			Credits
MAT	171	.....	4
EGR	131	.....	2
ELN	133	.....	4
HUM	115	.....	3
Social/Behavioral Sciences Elective.....			3
			16

Spring Semester

COM	231	.....	3
CSC	134	.....	3
ELC	131	.....	4
MAT	172	.....	4
			14

Summer Semester

ELC	117	.....	4
			4

Second Year

Fall Semester			Credits
ELC	133	.....	4
ELN	131	.....	4
ELN	260	.....	4
PHY	151	.....	4
			16

Spring Semester

ELC	135	.....	3
ELC	215	.....	3
ELN	232	.....	4
ENG	111	.....	3
WBL	111	.....	1
WBL	115	.....	1
			15

Suggested Curriculum by Semesters for University Transfer Track

Applies to day offerings

First Year

Fall Semester		Credits
ACA 122	.....	1
EGR 131	.....	2
ELN 133	.....	4
HUM 115	.....	3
MAT 171	.....	4
		14

Spring Semester

COM 231	.....	3
CSC 134	.....	3
ELC 131	.....	4
MAT 172	.....	4
		14

Summer Semester

MAT 271	.....	4
Social/Behavioral Sciences Elective.....		3
		7

Second Year

Fall Semester		Credits
ELN 131	.....	4
ELN 133	.....	4
ELN 260	.....	4
PHY 151	.....	4
		16

Spring Semester

ELN 232	.....	4
ENG 111	.....	3
MAT 272	.....	4
PHY 152	.....	4
		15

Robotics Diploma [D40200R]

		Credits
COM 110	Introduction to Communication or	
COM 120	Intro to Interpersonal Communication or	
COM 231	Public Speaking.....	3
ELC 117	Motors and Controls.....	4
ELC 131	Circuit Analysis I.....	4
ELC 133	Circuit Analysis II.....	4
ELC 135	Electrical Machines.....	3
ELN 131	Analog Electronics I.....	4
ELN 133	Digital Electronics.....	4
ELN 260	Programmable Logic Controllers.....	4
MAT 171	Precalculus Algebra.....(4)	
MAT 172	Precalculus Trigonometry.....	4

Total Credit Hours Required for Diploma Program 37

Certificate Options

Credits

Analog Electronics Certificate [C40200A]

ELC	131	Circuit Analysis I.....	4
ELC	133	Circuit Analysis II.....	4
ELN	131	Analog Electronics I.....	4

Total Credit Hours Required for Certificate Program 12

Embedded Microprocessors Design Certificate [C40200B]

ELC	131	Circuit Analysis I.....	4
ELC	133	Circuit Analysis II.....	4
ELN	133	Digital Electronics.....	4
ELN	232	Introduction to Microprocessors.....	4

Total Credit Hours Required for Certificate Program 16

Robotics Certificate [C40200R]

ELC	117	Motors and Controls.....	4
ELC	135	Electrical Machines.....	3
ELN	133	Digital Electronics.....	4
ELN	260	Programmable Logic Controllers.....	4

Total Credit Hours Required for Certificate Program 15

Electrical Maintenance Certificate [C40200N]

ELC	117	Motors and Controls.....	4
ELC	131	Circuit Analysis I.....	4
ELC	135	Electrical Machines.....	3
ELC	215	Electrical Maintenance.....	3

Total Credit Hours Required for Certificate Program 14

Emergency Medical Science

A.A.S. Degree [A45340]

Curriculum Description

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.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

BIO 275 Microbiology.....4

ENG 111 Writing and Inquiry3

ENG 112 Writing/Research in the Disciplines3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111 Art Appreciation3

HUM 115 Critical Thinking3

MUS 110 Music Appreciation.....3

PHI 240 Introduction to Ethics3

Social/Behavioral Science (3 credits)

Take one (1) course from:

POL 130 State & Local Government.....3

PSY 150 General Psychology3

SOC 210 Introduction to Sociology3

Total General Education Required Hours..... 16

Major Required Courses

Note: Students must have BIO 110, BIO 111 OR High school Biology within 5 years.

BIO 168 Anatomy and Physiology I and4

BIO 169 Anatomy and Physiology II.....4

EMS 110 EMT9

EMS 122 EMS Clinical Practicum I1

EMS 130 Pharmacology.....4

EMS 131 Advanced Airway Management2

EMS 160 Cardiology I.....2

EMS 220 Cardiology II.....3

EMS 221 EMS Clinical Practicum II.....2

EMS 231 EMS Clinical Practicum III.....3

EMS 240 Patients with Special Challenges2

EMS 241 EMS Clinical Practicum IV.....4

EMS 250 Medical Emergencies.....4

EMS 260 Trauma Emergencies.....2

EMS 270 Life Span Emergencies.....4

EMS 285 EMS Capstone.....2

MED 121 Medical Terminology I.....3

MED 122 Medical Terminology II.....3

Total Major Required Hours.....52

Total Credit Hours Required for A.A.S Degree.....68

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
EMS 110	.....	8
MED 121	.....	3 (1st 8 weeks)
MED 122	.....	3 (2nd 8 weeks)
BIO 163 or	.....	5
BIO 168	.....	4
ENG 111	.....	3
		21-22

Spring Semester

EMS 130	.....	4
EMS 131	.....	2
BIO 169	.....	4
EMS 160	.....	2
EMS 122	.....	1
		13

Summer Semester

EMS 220	.....	3
EMS 260	.....	2
EMS 221	.....	2
		7

Second Year

Fall Semester

Humanities/Fine Arts Elective	.....	3
EMS 250	.....	4
EMS 270	.....	3
EMS 231	.....	3
		13

Spring Semester

ENG 112	.....	3
Social/Behavioral Science Elective	.....	3
EMS 240	.....	2
EMS 241	.....	4
EMS 285	.....	2
		14

Emergency Medical Science Bridge Program

A.A.S. Degree [A45340B]

Curriculum Description

The Emergency Medical Science Bridging Option is designed to allow a currently certified, non-degreed Paramedic to earn an Associate of Applied Science in Emergency Medical Science by completing course requirements identified outside of the paramedic subject area. This program of study provides the student an opportunity to enhance learning already achieved through continuing education for Paramedic. Course work includes medical terminology, Biology, Mathematics, English, Humanities, and Social Sciences. Only Certified Paramedics are permitted in the Bridging Option. Contact the EMS Program Coordinator for prerequisites for admission requirements.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

BIO 275	Microbiology	4
ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111	Art Appreciation	3
HUM 115	Critical Thinking	3
MUS 110	Music Appreciation	3
PHI 240	Introduction to Ethics	3

Social/Behavioral Science (3 credits)

Take one (1) course from:

POL 130	State & Local Government	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3

Total General Education Required Hours 16

Major Required Courses

**Note: Students must have BIO 110, BIO 111 OR High school Biology within 5 years.*

BIO 163	Basic Anatomy & Physiology or	5
*BIO 168	Anatomy and Physiology I and	(4)
BIO 169	Anatomy and Physiology II	(4)

Total Major Required Hours.....5-8

Total Credit Hours Required for A.A.S Degree..... 21-24

Suggested Curriculum by Semesters

Fall Semester	Credits
BIO 163 or	5
BIO 168	4
ENG 111	3
	7-8

Spring Semester	Credits
BIO 169	4
ENG 112	3
Humanities/Fine Arts Elective	3
Social/Behavioral Sciences Elective	3
	13

Esthetics Technology

Certificate Program [C55230]

Curriculum Description

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the art of skin care. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional Esthetics Technology, business/human relations, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and cosmetic/skin care salons, as a platform artist, and in related businesses.

Course and Hour Requirements

Credits

General Education Required Courses

None

Major Required Courses

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 Major Required Hours..... 16

Total Credit Hours Required for Certificate Program 16

Suggested Curriculum by Semesters

Fall Semester	Credits
COS 119	2
COS 120	6
	8
Spring Semester	
COS 125	2
COS 126	6
	8

Fire Protection Technology

A.A.S. Degree [A55240]

Certificate Programs [C55240, C55240FS]

Curriculum Description

The Fire Protection Technology curriculum is designed to provide individuals with technical and professional knowledge to make decisions regarding fire protection for both public and private sectors. It also provides a sound foundation for continuous higher learning in fire protection, administration, and management.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of fire protection. Students will learn technical and administrative skills such as fire prevention, building construction, arson investigation, fire protection safety, fire suppression management, law, and codes.

Graduates should qualify for employment or advancement in fire departments, governmental agencies, industrial firms, insurance rating organizations and educational organizations. Employed persons should have opportunities for skilled and supervisory-level positions within their current organizations. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

ENG 111 Writing and Inquiry3

ENG 114 Professional Research and Reporting.....3

Humanities/Fine Arts Electives (3 credits)

Take one (1) course from:

ART 111 Art Appreciation3

HUM 115 Critical Thinking3

HUM 160 Introduction to Film.....3

MUS 110 Music Appreciation.....3

PHI 240 Introduction to Ethics3

Math (3-4 credits)

Take one (1) course from:

MAT 143 Quantitative Literacy3

MAT 171 Precalculus Algebra4

Social Science Elective (3 credits)

Take one (1) course from:

PSY 150 General Psychology.....3

POL 130 State & Local Government.....3

SOC 210 Introduction to Sociology.....3

Total General Education Required Hours 15-16

Major Required Courses

CIS 110 Introduction to Computers.....3

EPT 140 Emergency Management.....3

FIP 120 Introduction to Fire Protection.....3

FIP 124 Fire Prevention and Public Education.....3

FIP 128 Detection and Investigation.....3

FIP 132 Building Construction.....3

FIP 136* Inspections and Codes3

FIP 146 Fire Protection Systems.....4

FIP 152 Fire Protection Law3

FIP 220 Fire Fighting Strategies3

FIP 228 Local Government Finance3

FIP 229 Fire Dynamics and Combustion.....3

FIP 276 Managing Fire Services.....3

Total Major Required Hours..... 40

Major Electives

Select 9 credits

FIP 164	OSHA Standards	3
FIP 221	Advanced Fire Fighting Strategies	3
FIP 224*	Fire Instructor I and II	4
FIP 226*	Fire Officer I and II	4
FIP 230	Chemistry of Hazardous Materials I	5
FIP 232	Hydraulics and Water Distribution	3
FIP 240	Fire Service Supervision	3
FIP 244	Fire Protection Project	3

Total Major Elective Required Hours9

Total Credit Hours Required for A.A.S. Degree 64-65

Suggested Curriculum by Semesters

First Year

Fall Semester	Credits
ENG 111	3
FIP 120	3
FIP 124	3
FIP 128	3
FIP 152	3
	15

Spring Semester

CIS 110	3
FIP 136	3
FIP 146	4
MAT 143 or	3
MAT 171	(4)
	13-14

Summer Semester

Humanities/Fine Arts Elective	3
Major Electives	3-6
	6-9

Second Year

Fall Semester	Credits
ENG 114	3
EPT 140	3
FIP 132	3
FIP 276	3
Major Elective	3
	15

Spring Semester

FIP 220	3
FIP 228	3
FIP 229	3
Social Science Elective	3
	12

Credit for experience up to nine hours of credit:

- Students may receive credit for FIP 136/Inspections and Codes if they hold a valid level 1 Fire Inspectors Certification from the NC Office of State Fire Marshal.
- Students may receive credit for FIP 224/Fire Instructor I and II if they hold a valid Instructors Certification from the NC Office of State Fire Marshal.
- Students may receive credits for FIP 240/Fire Officer if they hold a valid Fire Office I and II Certification from the NC Office of State Fire Marshal.
- Students may receive credits for FIP 124/Fire Prevention & Public Education if they hold a valid NC Fire Educator II certification from the NC Office of State Fire Marshal.
- Students may receive credits for FIP 128/Detection and Investigation if they hold a valid NC Arson Investigator certification from the NC Office of State Fire Marshal.
- Students may receive credits for up to 6 credit hours for a valid NC EMT certification from the NC Office of EMS.

Certificate Options

Credits

Fire Protection Technology Certificate [C55240]

FIP	120	Intro to Fire Protection	3
FIP	124	Fire Prevention & Public Ed.....	3
FIP	132	Building Construction.....	3
FIP	152	Fire Protection Law	3
FIP	220	Fire Fighting Strategies	3
FIP	228	Local Government Finance	3

Total Credit Hours Required for Certificate Program 18

Fire Service Manager Certificate [C55240FS]

CIS	110	Introduction to Computers.....	3
ENG	111	Writing and Inquiry	3
EPT	140	Emergency Management.....	3
FIP	152	Fire Protection Law	3
FIP	228	Local Government Finance	3
FIP	276	Managing Fire Services.....	3

Total Credit Hours Required for Certificate Program 18

General Occupational Technology

A.A.S. Degree [A55280]

Diploma Program [D55280]

Curriculum Description

The General Occupational Technology curriculum provides individuals with an opportunity to upgrade skills and to earn an associate degree, diploma, and/or certificate by taking courses suited for individual occupational interests and/or needs.

The curriculum content will be customized for students according to occupational interests and needs. A program of study for each student will be selected from any non-developmental level courses offered by the College.

Graduates will become more effective workers, better qualified for advancements within their field of employment, and become qualified for a wide range of entry-level employment opportunities. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

A.A.S. General Education Core15 Credits

Diploma General Education Core 6 Credits

Communication

A.A.S. programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 3 semester hours of communications. Choose from the following to fulfill requirement:

COM 110	Introduction to Communication.....	3
COM 120	Intro to Interpersonal Communication....	3
COM 140	Intro to Intercultural Communication.....	3
COM 231	Public Speaking.....	3
ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines	3
ENG 114	Professional Research and Reporting	3

For the Degree program, choose at least one course from each of the following categories. For the diploma program choose one course from any of the following categories.

Humanities/Fine Arts

ART 111	Art Appreciation	3
ART 114	Art History Survey I.....	3
ART 115	Art History Survey II.....	3
ENG 125	Creative Writing I.....	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 261	World Literature I.....	3
ENG 262	World Literature II.....	3
ENG 273	African-American Literature.....	3
HUM 120	Cultural Studies.....	3
HUM 130	Myth in Human Culture.....	3
HUM 160	Introduction to Film.....	3
MUS 110	Music Appreciation.....	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

Social/Behavioral Sciences

ECO 251	Principles of Microeconomics.....	3
ECO 252	Principles of Macroeconomics.....	3
GEO 130	General Physical Geography.....	3
HIS 111	World Civilization I.....	3
HIS 112	World Civilization II.....	3
HIS 131	American History I.....	3

HIS	132	American History II.....	3
HIS	151	Hispanic Civilization.....	3
HIS	221	African-American History.....	3
POL	120	American Government.....	3
POL	130	State and Local Government.....	3
POL	210	Comparative Government.....	3
POL	220	International Relations.....	3
PSY	150	General Psychology.....	3
SOC	210	Introduction to Sociology.....	3
SOC	213	Sociology of the Family.....	3
SOC	220	Social Problems.....	3
SOC	225	Social Diversity.....	3

Natural Science/Mathematics

BIO	110	Principles of Biology.....	4
BIO	111	General Biology I.....	4
CHM	131	Introduction to Chemistry.....	3
CHM	131A	Introduction to Chemistry Lab.....	1
CHM	151	General Chemistry I.....	4
CIS	110	Introduction to Computers.....	3
MAT	110	Math Measurement & Literacy.....	3
MAT	143	Quantitative Literacy.....	3
MAT	171	Precalculus Algebra.....	4
PHY	110	Conceptual Physics.....	3
PHY	110A	Conceptual Physics Lab.....	1

Total Major Hours Required for A.A.S.....49 Credits

Total Major Hours Required for Diploma.....30 Credits

Other Required Hours

Other required hours may be chosen from courses listed below or unselected general education core courses offered in this program.

ACA	111	College Student Success.....	1
ACC	115	College Accounting.....	4
ACC	120	Principles of Financial Accounting.....	4
ACC	121	Principles of Managerial Accounting.....	4
ACC	122	Principles of Financial Accounting II.....	3
ACC	129	Individual Income Taxes.....	3
ACC	130	Business Income Taxes.....	3
ACC	140	Payroll Accounting.....	2
ACC	149	Intro. to Accounting Spreadsheet.....	2
ACC	150	Accounting Software Applications.....	2
ACC	220	Intermediate Accounting I.....	4
ACC	221	Intermediate Accounting II.....	4
ACC	226	Advanced Managerial Accounting.....	3
ACC	227	Practices in Accounting.....	3
AGR	110	Agricultural Economics.....	3
AGR	111	Basic Farm Maintenance.....	3
AGR	139	Intro. to Sustainable Agriculture.....	3
AGR	140	Agricultural Chemicals.....	3
AGR	150	Ag-O-Metrics.....	3
AGR	160	Plant Science.....	3
AGR	170	Soil Science.....	3
AGR	210	Agricultural Accounting.....	3
AGR	212	Farm Business Management.....	3
AGR	213	Agriculture Law and Finance.....	3
AGR	214	Agricultural Marketing.....	3
AGR	220	Agricultural Mechanization.....	3
AGR	226	Maintaining and Servicing of Prod. Fac...3	
AGR	261	Agronomy.....	3
AGR	262	Weed ID and Control.....	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	133	HVAC Servicing.....	4

AHR	151	HVAC Duct Systems I.....	2
AHR	160	Refrigerant Certification	1
AHR	180	HVACR Customer Relations.....	1
AHR	211	Residential System Design.....	3
ANS	110	Animal Science	3
ART	121	Two-Dimensional Design.....	3
ART	122	Three-Dimensional Design.....	3
ART	131	Drawing I.....	3
ART	132	Drawing II.....	3
ART	135	Figure Drawing I.....	3
ART	171	Computer Art I.....	3
ART	231	Printmaking I.....	3
ART	232	Printmaking II.....	3
ART	240	Painting I.....	3
ART	241	Painting II.....	3
ART	261	Photography I.....	3
ART	262	Photography II.....	3
ART	266	Videography I.....	3
ART	267	Videography II.....	3
ART	271	Computer Art II.....	3
ART	281	Sculpture I.....	3
ART	282	Sculpture II.....	3
ART	283	Ceramics I.....	3
ART	284	Ceramics II.....	3
ASL	111	Elementary ASL I.....	3
ASL	112	Elementary ASL II.....	3
AST	111	Descriptive Astronomy.....	3
AST	111A	Descriptive Astronomy Lab.....	1
ATR	112	Introduction to Automation.....	3
ATR	214	Advanced PLCs.....	4
BAF	110	Principles of Banking.....	3
BIO	112	General Biology II.....	4
BIO	120	Introductory Botany.....	4
BIO	130	Introductory Zoology.....	4
BIO	140	Environmental Biology.....	3
BIO	140A	Environmental Biology Lab.....	1
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	275	Microbiology.....	4
BUS	110	Introduction to Business.....	3
BUS	115	Business Law I.....	3
BUS	121	Business Math.....	3
BUS	137	Principles of Management.....	3
BUS	153	Human Resource Management.....	3
BUS	217	Employment Laws and Regulations.....	3
BUS	238	Integrated Management.....	3
BUS	253	Leadership and Management Skills.....	3
BUS	258	Compensation and Benefits.....	3
BUS	260	Business Communication.....	3
BUS	270	Professional Development.....	3
CHI	111	Elementary Chinese I.....	3
CHI	112	Elementary Chinese II.....	3
CHI	211	Intermediate Chinese I.....	3
CHI	212	Intermediate Chinese II.....	3
CHM	132	Organic and Biochemistry.....	4
CHM	152	General Chemistry II.....	4
CIS	115	Intro. to Programming and Logic.....	3
CJC	100	Basic Law Enforcement Training.....	19
CJC	111	Introduction to Criminal Justice.....	3
CJC	112	Criminology.....	3
CJC	113	Juvenile Justice.....	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 Procedure and Evidence.....	3

CJC	141	Corrections.....	3
CJC	151	Introduction to Loss Prevention.....	3
CJC	160	Terrorism: Underlying Issues.....	3
CJC	170	Critical Incident Man. for Public Safety...3	
CJC	212	Ethics and Community Relations.....	3
CJC	215	Organization and Administration.....	3
CJC	221	Investigative Principles.....	4
CJC	222	Criminalistics.....	3
CJC	223	Organized Crime.....	3
CJC	225	Crisis Intervention.....	3
CJC	231	Constitutional Law.....	3
CJC	255	Issues in Criminal Justice Application.....	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	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
CTI	110	Web, Prog. and Database Foundation.....	3
CTI	120	Network and Security Foundation.....	3
CTS	115	Information systems Business Concepts.....	3
CTS	120	Hardware/Software Support.....	3
CTS	130	Spreadsheet.....	3
DBA	110	Database Concepts.....	3
DDF	252	Advanced Solid Modeling.....	3
DDT	110	Developmental Disabilities.....	3
DFT	111	Technical Drafting I.....	2
DFT	151	CAD I.....	3
DFT	152	CAD II.....	3
DFT	153	CAD III.....	3
DFT	170	Engineering Graphics.....	3
DFT	211	Gears, Cams, and Pulleys.....	2
DME	110	Introduction to Digital Media.....	3
DME	115	Graphic Design Tools.....	3
DME	120	Introduction to Multimedia Application.....	3
DME	130	Digital Animation I.....	3
DME	210	User Interface Design.....	3
DME	215	Advanced Graphic Design Tools.....	3
DME	260	Emerging Tech Digital Media.....	3
DME	270	Professional Practice Digital Media.....	3
DME	285	Systems Project.....	3
DRA	131	Acting II.....	3
EDU	119	Intro. to Early Childhood Education.....	4
EDU	126	Early Childhood Seminar I.....	2
EDU	131	Child, Family, and Community.....	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	154	Social/Emotional/Behavioral Dev.....	3
EDU	162	Observation and Assessment in ECE.....	3
EDU	163	Classroom Man. and Instr Techniques.....	3
EDU	216	Foundations of Education.....	4

EDU	221	Children with Exceptionalities	3
EDU	223	Specific Learning Disabilities	3
EDU	234	Infant, Toddlers, and Twos	3
EDU	234A	Infant, Toddlers, and Twos Lab.....	1
EDU	235	School-Age Dev. and Programs.....	3
EDU	243	Learning Theory.....	3
EDU	244	Human Growth/Development.....	3
EDU	245	Policies and Procedures.....	3
EDU	247	Sensory and Physical Disabilities	3
EDU	248	Developmental Delays.....	3
EDU	252	Math and Science Activities	3
EDU	259	Curriculum Planning.....	3
EDU	261	Early Childhood Administration I.....	3
EDU	262	Early Childhood Administration II.....	3
EDU	271	Educational Technology.....	3
EDU	280	Language and Literacy Experiences.....	3
EDU	281	Inst. Strategies/Reading and Writing.....	3
EDU	284	Early Childhood Capstone Practices	4
EDU	288	Adv. Issues/Early Childhood Education...2	
EGR	150	Introduction to Engineering.....	2
EGR	210	Intro to Elec/Comp Engineering Lab	2
EGR	212	Logic System Design I.....	3
EGR	215	Network Theory I.....	3
EGR	216	Logic and Network Lab.....	1
EGR	220	Engineering Statics	3
EGR	225	Engineering Dynamics.....	3
EGR	228	Introduction to Solid Mechanics	3
EGR	250	Statics/Strength of Materials.....	5
EGR	285	Design Project.....	2
ELC	113	Residential Wiring	4
ELC	114	Commercial Wiring.....	4
ELC	115	Industrial Wiring	4
ELC	117	Motors and Controls.....	4
ELC	119	NEC Calculations	2
ELC	131	Circuit Analysis I.....	4
ELC	131A	Circuit Analysis I Lab	1
ELC	133	Circuit Analysis II.....	4
ELC	135	Electrical Machines	3
ELC	213	Instrumentation	4
ELC	215	Electrical Maintenance	3
ELN	131	Analog Electronics I.....	4
ELN	133	Digital Electronics.....	4
ELN	232	Introduction to Microprocessors.....	4
ELN	260	Programmable Logic Controllers	4
ENG	126	Creative Writing II	3
EPT	140	Emergency Management	3
FIP	120	Introduction to Fire Protection.....	3
FIP	124	Fire Prevention and Public Education.....	3
FIP	128	Detection and Investigation.....	3
FIP	132	Building Construction.....	3
FIP	136	Inspections and Codes.....	3
FIP	146	Fire Protection Systems.....	4
FIP	152	Fire Protection Law	3
FIP	220	Fire Fighting Strategies	3
FIP	221	Advanced Fire Fighting Strategies	3
FIP	224	Fire Instructor I and II.....	4
FIP	226	Fire Officer I and II.....	4
FIP	228	Local Government Finance	3
FIP	229	Fire Dynamics and Combustion.....	3
FIP	230	Chemistry of Hazardous Materials I.....	5
FIP	232	Hydraulics and Water Distribution	3
FIP	240	Fire Service Supervision.....	3
FIP	244	Fire Protection Project	3
FIP	276	Managing Fire Services.....	3
FRE	111	Elementary French I.....	3
FRE	112	Elementary French II.....	3
GER	111	Elementary German I.....	3
GER	112	Elementary German II.....	3

GRD	141	Graphic Design I	4
GRO	120	Gerontology	3
HEA	110	Personal Health/Wellness	3
HEA	112	First Aid and CPR	2
HEA	120	Community Health	3
HIS	236	North Carolina History	3
HMT	110	Introduction to Healthcare Management	3
HMT	210	Medical Insurance	3
HMT	211	Long-Term Care Administration	3
HMT	220	Healthcare Financial Management	4
HSE	110	Introduction to Human Services	3
HSE	112	Group Process I	2
HSE	123	Interviewing Techniques	3
HSE	125	Counseling	3
HSE	210	Human Services Issues	2
HSE	220	Case Management	3
HSE	225	Crisis Intervention	3
HSE	240	Issues in Client Services	3
HUM	115	Critical Thinking	3
HUM	180	International Cultural Exploration	3
HYD	110	Hydraulics/Pneumatics I	3
ISC	115	Construction Safety	2
ISC	121	Environmental Health and Safety	3
LAT	111	Elementary Latin I	3
LAT	112	Elementary Latin II	3
MAC	122	CNC Turning	2
MAC	124	CNC Milling	2
MAC	232	CAM: CNC Milling	3
MAT	152	Statistical Methods I	4
MAT	172	Precalculus Trigonometry	3
MAT	263	Brief Calculus	3
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	110	Introduction to CAD/CAM	2
MEC	111	Machine Processes I	3
MEC	130	Mechanisms	3
MEC	145	Manufacturing Materials I	3
MED	110	Orientation to Medical Assisting	1
MED	118	Medical Law and Ethics	2
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3
MED	130	Administrative Office Procedures I	2
MED	131	Administrative Office Procedures II	2
MED	140	Exam Room Procedures I	5
MED	150	Laboratory Procedures I	5
MED	232	Medical Insurance Coding	2
MED	260	MED Clinical Practicum	5
MED	270	Symptomatology	3
MED	272	Drug Therapy	3
MKT	120	Principles of Marketing	3
MKT	122	Visual Merchandising	3
MKT	123	Fundamentals of Selling	3
MUS	111	Fundamentals of Music	3
MUS	112	Introduction to Jazz	3
MUS	121	Music Theory I	4
MUS	122	Music Theory II	4
MUS	131	Chorus I	1
MUS	132	Chorus II	1
MUS	133	Band I	1
MUS	134	Band II	1
MUS	135	Jazz Ensemble I	1
MUS	136	Jazz Ensemble II	1
MUS	141	Ensemble I	1
MUS	142	Ensemble II	1
MUS	151	Class Music I	1

MUS	152	Class Music II.....	1
MUS	161	Applied Music I.....	2
MUS	162	Applied Music II.....	2
MUS	221	Music Theory III.....	4
MUS	222	Music Theory IV.....	4
MUS	231	Chorus III.....	1
MUS	232	Chorus IV.....	1
MUS	233	Band III.....	1
MUS	234	Band IV.....	1
MUS	235	Jazz Ensemble III.....	1
MUS	236	Jazz Ensemble IV.....	1
MUS	261	Applied Music III.....	2
MUS	262	Applied Music IV.....	2
MUS	271	Music History I.....	3
MUS	272	Music History II.....	3
NAS	101	Nurse Aide I.....	6
NAS	102	Nurse Aide II.....	6
NAS	103	Home Health Care Nurse Aide.....	6
NET	110	Networking Concepts.....	3
NET	125	Introduction to Networks.....	3
NET	126	Routing Basics.....	3
NET	225	Routing and Switching I.....	3
NET	226	Routing and Switching II.....	3
NOS	110	Operating System Concepts.....	3
NOS	120	Linux/UNIX Single User.....	3
NOS	130	Windows Single User.....	3
NOS	230	Windows Administration I.....	3
NOS	231	Windows Administration II.....	3
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	117	Pharmacology.....	2
NUR	211	Health Care Concepts.....	5
NUR	212	Health System Concepts.....	5
NUR	213	Complex Health Concepts.....	10
OST	134	Text Entry and Formatting.....	3
OST	135	Advanced Text Entry and Formatting.....	3
OST	164	Text Editing Applications.....	3
OST	181	Introduction to Office Systems.....	3
OST	184	Records Management.....	3
OST	247	Procedure Coding.....	2
OST	248	Diagnostic Coding.....	2
OST	249	CPC Certification.....	4
OST	289	Administrative Office Management.....	3
PED	110	Fit and Well for Life.....	2
PED	111	Physical Fitness I.....	1
PED	113	Aerobics I.....	1
PED	117	Weight Training I.....	1
PED	121	Walk, Jog, Run.....	1
PED	122	Yoga I.....	1
PED	123	Yoga II.....	1
PED	125	Self-Defense: Beginning.....	1
PED	128	Golf—Beginning.....	1
PED	134	Wrestling.....	1
PED	137	Badminton.....	1
PED	139	Bowling—Beginning.....	1
PED	142	Lifetime Sports.....	1
PED	143	Volleyball—Beginning.....	1
PED	145	Basketball—Beginning.....	1
PED	171	Nature Hiking.....	1
PED	186	Dancing for Fitness.....	1
PED	217	Pilates I.....	1
PED	233	Ju-Jitsu.....	1
PED	239	Kickboxing.....	1
PHY	151	College Physics I.....	4
PHY	152	College Physics II.....	4
PHY	251	General Physics I.....	4

PHY	252	General Physics II.....	4
PSY	241	Developmental Psychology	3
PSY	281	Abnormal Psychology.....	3
SAB	110	Substance Abuse Overview.....	3
SAB	135	Addictive Process	3
SAB	210	Substance Abuse Counseling.....	3
SEC	110	Security Concepts.....	3
SPA	111	Elementary Spanish I.....	3
SPA	112	Elementary Spanish II.....	3
SPA	211	Intermediate Spanish I.....	3
SPA	212	Intermediate Spanish II.....	3
SWK	110	Introduction to Social Work.....	3
SWK	113	Working With Diversity.....	3
WBL	111	Work-Based Learning I.....	1
WBL	112	Work-Based Learning I.....	2
WBL	115	Work-Based Learning Seminar I.....	1
WBL	121	Work-Based Learning II.....	1
WEB	110	Internet/Web Fundamentals.....	3
WEB	140	Web Development Tools	3
WEB	187	Prog for Mobile Devices	3
WEB	210	Web Design	3
WLD	110	Cutting Processes.....	2
WLD	115	SMAW (Stick) Plate	5
WLD	116	SMAW (Stick) Plate/Pipe.....	4
WLD	121	GMAW (MIG) FCAW/Plate.....	4
WLD	122	GMAW (MIG) Plate/Pipe.....	3
WLD	131	GTAW (TIG) Plate.....	4
WLD	132	GTAW (TIG) Plate/Pipe	3
WLD	141	Symbols and Specifications.....	3
WLD	151	Fabrication I.....	4

Total Credit Hours Required for A.A.S. Degree..... 64

Total Credit Hours Required for Diploma Program 36

Health Information Technology

A.A.S. Degree [A45360]

Curriculum Description

The Health Information Technology curriculum provides individuals with the knowledge and skills to process, analyze, abstract, compile, maintain, manage, and report health information.

Students will supervise departmental functions; classify, code, and index diagnoses and procedures; coordinate information for cost control, quality management, statistics, marketing, and planning; monitor governmental and non-governmental standards; facilitate research; and design system controls to monitor patient information security.

Graduates of this program may be eligible to write the national certification examination 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.

Health Information Technology is an Associate Degree and Diploma program offered in conjunction with Pitt Community College who awards the degree. Students may take courses marked with an asterisk (*) at Mitchell Community College. All HIT technical courses, excluding professional practice (HIT 124 and HIT 224-clinical courses), are offered online through Pitt Community College. (You must apply for and be formally admitted to the HIT program to take any HIT courses.)

Course and Hour Requirements

Credits

General Education Required Courses

*ENG 111	Writing and Inquiry	3
*ENG 112	Writing/Research in the Disciplines	3
*HUM 115	Critical thinking	3
*MAT 143	Quantitative Literacy	3
*PSY 150	General Psychology	3

Total General Education Required Hours 15

Major Required Courses

*ACA 111	College Student Success.....	1
*BIO 168	Anatomy and Physiology I.....	4
*BIO 169	Anatomy and Physiology II.....	4
CIS 111	Basic PC Literacy	2
HIT 110	Fundamentals of HIM	3
HIT 112	Health Law and Ethics.....	3
HIT 114	Health Data Systems/Standards	3
HIT 210	Healthcare Statistics	3
HIT 211	ICD Coding.....	4
HIT 214	CPT/Other Coding Systems.....	2
HIT 215	Reimbursement Methodology	2
HIT 216	Quality Management.....	2
HIT 218	Management Principles in HIT	3
HIT 220	Health Informatics & EHRs	2
HIT 225	Healthcare Informatics	4
HIT 226	Principles of Disease	3
HIT 280	Professional Issues	2
*MED 121	Medical Terminology I.....	3
*MED 122	Medical Terminology II.....	3
OST 248	Diagnostic Coding	3

Professional Practice Experience

HIT 124	Professional Practice Experience II	1
HIT 224	Professional Practice Experience IV.....	2

Total Major Required Hours..... 61

Total Credit Hours Required for A.A.S. Degree..... 74

Healthcare Management

A.A.S. Degree [A25200] Certificate Program [C25200]

Curriculum Description

The Healthcare Management curriculum is designed to prepare students for employment in healthcare business and financial operations. Students will gain a comprehensive understanding of the application of management principles to the healthcare environment.

The curriculum places emphasis on planning, organizing, directing, and controlling tasks related to healthcare organizational objectives including the legal and ethical environment. Emphasis is placed on the development of effective communication, managerial, and supervisory skills.

Graduates may find employment in healthcare settings including hospitals, medical offices, clinics, long-term care facilities, and insurance companies. Graduates are eligible to sit for various certification exams upon completion of the degree with a combination of a minimum of two years administrative experience. Eligible certifications include, but are not limited to, the Professional Association of Healthcare Office Managers (PAHCOM), the Healthcare Financial Management Association (HFMA), the Certified Patient Account Manager (CPAM) and the Certified Manager of Patient Accounts (CMPA) examinations.

Course and Hour Requirements

Credits

General Education Required Courses

ENG	111	Writing and Inquiry	3
COM	110	Introduction to Communication	3
ART	111	Art Appreciation	3
PSY	150	General Psychology	3
MAT	110	Math Measurement & Literacy	3

Total General Education Required Hours 15

Major Required Courses

ACC	120	Principles of Financial Accounting	4
ACC	121	Principles of Managerial Accounting	4
CIS	110	Introduction to Computers	3
HMT	110	Introduction to Healthcare Management	3
HMT	210	Medical Insurance	3
HMT	211	Long-Term Care Administration	3
HMT	215	Legal Aspects of Healthcare Admin	3
MED	118	Medical Law and Ethics	2
MED	121	Medical Terminology I	3
MED	122	Medical Terminology II	3

Total Major Required Courses 31

Total Major Required Hours..... 43

General Healthcare Management

BUS	121	Business Math	3
BUS	137	Principles of Mgt	3
BUS	217	Employment Law and Regulations	3
BUS	253	Leadership and Mgt Skills	3
BUS	258	Compensation and Benefits	3
BUS	260	Business Communication	3
HMT	220	Healthcare Financial Management	4

Total Credit Hours Required for General Healthcare Management..... 22

Total Credit Hours Required for A.A.S. Degree..... 68

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
ACC 120	.....	4
CIS 110	.....	3
HMT 110	.....	3
MED 121 (Fast Track)	.....	3
MED 122 (Fast Track)	.....	3
		16

Spring Semester

ACC 121	.....	4
BUS 137	.....	3
BUS 121	.....	3
ENG 111	.....	3
HMT 210	.....	3
OST 247	.....	2
		16

Summer Semester

ART 111	.....	3
PSY 150	.....	3
		6

Second Year

Fall Semester		
BUS 217	.....	3
COM 110	.....	3
HMT 211	.....	3
MAT 110	.....	3
MED 118	.....	2
		14

Spring Semester

BUS 137	.....	3
BUS 253	.....	3
BUS 258	.....	3
HMT 220	.....	4
		13

Certificate Option

Credits

Healthcare Management Certificate (25200)

ACC 120	Prin of Financial Accounting	.....	4
HMT 110	Intro to Healthcare Mgt	.....	3
HMT 210	Medical Insurance	.....	3
MED 121	Medical Terminology I	.....	3
HMT 211	Long-Term Care Admin	.....	3

Total Credit Hours Required for Certificate Program 16

Human Services Technology

A.A.S. Degree [A45380]

Certificate Programs [C45380H, C45380SW and C45380SA]

Curriculum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

COM	231	Public Speaking.....	3
ENG	111	Writing and Inquiry	3
SOC	220	Social Problems.....	3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART	111	Art Appreciation	3
ART	114	Art History Survey I.....	3
ART	115	Art History Survey II.....	3
COM	140	Intro to Intercultural Communication	3
ENG	125	Creative Writing I.....	3
ENG	233	Major American Writers.....	3
HUM	120	Cultural Studies	3
HUM	130	Myth in Human Culture	3
HUM	160	Introduction to Film.....	3
MUS	110	Music Appreciation.....	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

Natural Sciences/Math (3-4 credits)

Take one (1) course from:

BIO	110	Principles of Biology.....	4
BIO	111	General Biology I.....	4
MAT	143	Quantitative Literacy	3
MAT	171	Precalculus Algebra.....	4

Total General Education Required Hours 15-16

Major Required Courses

Required Courses

Credits

CIS	110	Introduction to Computers.....	3
DDT	110	Developmental Disabilities	3
GRO	120	Gerontology	3
HSE	110	Introduction to Human Services	3
HSE	112	Group Process I.....	2
HSE	123	Interviewing Techniques	3
HSE	125	Counseling.....	3
HSE	210	Human Services Issues	2
HSE	220	Case Management.....	3
HSE	225	Crisis Intervention	3
HSE	240	Issues in Client Services	3

Credits

PSY 150	General Psychology.....	3
SAB 110	Substance Abuse Overview.....	3
SOC 213	Sociology of the Family.....	3
WBL 111	Work-Based Learning I.....	1
WBL 115	Work-Based Learning Seminar I.....	1

Psychology (3 credits)

Take one (1) course from:

PSY 241	Developmental Psychology.....	3
PSY 281	Abnormal Psychology.....	3

SAB/SWK Elective (6 credits)

Take two (2) course from:

SAB 135	Addictive Process.....	3
SAB 210	Substance Abuse Counseling.....	3
SWK 110	Introduction To Social Work.....	3
SWK 113	Working With Diversity.....	3

Total Major Required Hours..... 51

Total Credit Hours Required for A.A.S. Degree..... 66-67

Suggested Curriculum by Semesters

First Year

Fall Semester

Credits

ENG 111	.....	3
HSE 110	.....	3
HSE 112	.....	2
HSE 125	.....	3
SAB 110	.....	3

14

Spring Semester

HSE 123	.....	3
HSE 220	.....	3
HSE 240	.....	3
PSY 150	.....	3

SAB/SWK Elective

SAB 210	or	3
SWK 113	3	

15

Summer Semester

PSY 241	or	3
PSY 281	.....	3
SOC 220	.....	3
Humanities/Fine Arts	.....	3

9

Second Year

Fall Semester

CIS 110	.....	3
DDT 110	.....	3
GRO 120	.....	3
SOC 213	.....	3

SAB/SWK Elective

SAB 135	or	3
SWK 110	3	

15

Spring Semester		Credits
BIO	110 or	
BIO	111 or	
MAT	143 or	
MAT	171	3-4
COM	231	3
HSE	210	2
HSE	225	3
WBL	111	1
WBL	115	1
		13-14

Certificate Options

Credits

Human Services [C45380H]

HSE	110	Introduction to Human Services	3
HSE	112	Group Process I	2
HSE	123	Interviewing Techniques	3
HSE	125	Counseling	3
HSE	225	Crisis Intervention	3
HSE	240	Issues in Client Services	3

Total Credit Hours Required for Certificate Program 17

Social Work [C45380SW]

HSE	110	Introduction to Human Services	3
HSE	123	Interviewing Techniques	3
HSE	125	Counseling	3
HSE	225	Crisis Intervention	3
SWK	110	Introduction to Social Work	3
SWK	113	Working with Diversity	3

Total Credit Hours Required for Certificate Program 18

Substance Abuse [C45380SA]

HSE	110	Introduction to Human Services	3
HSE	123	Interviewing Techniques	3
HSE	125	Counseling	3
HSE	225	Crisis Intervention	3
SAB	110	Substance Abuse Overview	3
SAB	135	Addictive Process or	3
SAB	210	Substance Abuse Counseling	(3)

Total Credit Hours Required for Certificate Program 18

Infant/Toddler Care

Certificate Program [C55290]

Curriculum Description

The curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with young children under the supervision of qualified teachers.

Course work includes infant/toddler growth and development: physical/nutritional needs of infants and toddlers; safety issues in the care of infants and toddlers; care and guidance; communication skills with parents and children; design an implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start Programs, and other infant/toddler programs.

Course and Hour Requirements

Credits

General Education Required Courses

None

Major Required Courses

EDU 119	Introduction to Early Childhood Education...	4
EDU 131	Child, Family, and Community.....	3
EDU 144	Child Development I	3
EDU 153	Health, Safety, and Nutrition.....	3
EDU 234	Infants, Toddlers, and Twos.....	3

Total Major Required Hours..... 16

Total Credit Hours Required for Certificate Program 16

Information Technology

A.A.S. Degree [A25590N] Networking

A.A.S. Degree [A25590P] Software Development

A.A.S. Degree [A25590S] Service/Support

Diploma [D25590]

Certificate Programs [C25590A, C25590C, C25590D, C25590E, C25590F, C25590H, C25590I, C25590J, C25590M, C25590S and C25590T]

Curriculum Description

The Information Technology (IT) field is very broad. Mitchell offers three focused IT degrees: Networking, Service/Support and Software Development. Several courses are common to all, but each degree has unique required courses. Graduates will be qualified for employment in entry-level positions with any public or private entity in their focus/degree area.

Students that choose the Networking degree will develop an in-depth understanding of computer network operation, administration methods and best business practices through hands-on labs and access to world class curriculum resources developed by networking giant Cisco Systems. In addition, Networking students build familiarity with commonly used server roles installed on enterprise-grade Microsoft Operating Systems.

Students that choose the Service/Support degree will develop a strong understanding of computer hardware through interaction with the hardware components that make up a modern day computer. In addition, students will be exposed to networking technologies through hands-on labs utilizing Netgear switches and enterprise-grade Microsoft Operating Systems.

Students that choose the Software Development degree will learn to program in three of the most popular languages: Java, C++ and Python. Students will gain foundational skills to learn additional languages in the future. Students will learn to program both for PCs and mobile devices. Students will also learn database design and database SQL language.

Course and Hour Requirements for all Information Technology—

A.A.S. Degrees [A25590N, A25590P, A25590S]

Credits

Common General Education Required Courses

Required Courses

COM 231 Public Speaking.....3

ENG 111 Writing and Inquiry3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111 Art Appreciation3

MUS 110 Music Appreciation.....3

PHI 240 Introduction to Ethics3

Math (3-4 credits)

Take one (1) course from:

MAT 143 Quantitative Literacy3

MAT 171 Precalculus Algebra4

Social/Behavioral Sciences (3 credits)

Take one (1) course from:

ECO 251 Principles of Microeconomics.....3

ECO 252 Principles of Macroeconomics3

HIS 111 World Civilizations I.....3

HIS 112 World Civilizations II.....3

HIS 131 American History I3

POL 120 American Government3

POL 130 Social Diversity3

POL 210 Comparative Government.....3

PSY 150 General Psychology3

SOC 210 Introduction to Sociology3

SOC 213 Sociology of the Family.....3

SOC 220 Social Problems.....3

SOC 225 Social Diversity3

Total Common General Education Required Hours 15-16

Common Major Required Courses

CIS	110	Introduction to Computers.....	3
CIS	115	Introduction to Programming and Logic ...	3
CTI	110	Web, Programming and Database Foundation..	3
CTI	120	Networking & Security Foundation.....	3
CTS	115	Information System Business Concepts..	3
CTS	120	Hardware/Software Support.....	3
NOS	110	Operating System Concepts	3
NOS	130	Windows Single User.....	3
SEC	110	Security Concepts.....	3

Total Common Major Required Hours..... 27

Total Common Required Hours42-43

Additional Courses (27 credits per degree)

Information Technology—Networking A.A.S. Degree [A25590N]

NET	110	Networking Concepts.....	3
NET	125	Introduction to Networks.....	3
NET	126	Routing Basics.....	3
NET	175	Wireless Technology.....	3
NET	225	Routing and Switching I.....	3
NET	226	Routing and Switching II	3
NET	289	Networking Project.....	3
NOS	120	Linux/UNIX Single User.....	3
NOS	230	Windows Administration I.....	3

Total Credit Hours Required for A.A.S. Degree..... 69-70

Information Technology—Software Development A.A.S. Degree [A25590P]

CSC	134	C++ Programming.....	3
CSC	151	Java Programming	3
CSC	234	Advanced C++ Programming	3
CSC	251	Advanced Java Programming.....	3
CSC	289	Programming Capstone Project.....	3
DBA	110	Database Concepts.....	3
DBA	120	Database Programming I.....	3
WEB	151	Mobile Application Development I.....	3
WEB	251	Mobile Application Development II.....	3

Total Credit Hours Required for A.A.S. Degree..... 69-70

Information Technology—Service/Support Development A.A.S. Degree [A25590S]

CTI	140	Virtualization Concepts.....	3
CTS	155	Tech Support Functions	3
CTS	220	Advanced Hardware/Software Support..	3
CTS	289	System Support Project	3
DBA	110	Database Concepts.....	3
NET	110	Networking Concepts.....	3
NOS	120	Linux/UNIX Single User.....	3
NOS	230	Windows Administration I.....	3
NOS	231	Windows Administration II.....	3

Total Credit Hours Required for A.A.S. Degree..... 69-70

Suggested Curriculum by Semesters—Networking A.A.S. Degree [A25590N]

First Year

Fall Semester		Credits
CIS 110	.....	3
CTI 110	.....	3
CTI 120	.....	3
NOS 110	.....	3
NET 125	.....	3
		15

Spring Semester

CTS 115	.....	3
CTS 120	.....	3
NET 110	.....	3
NET 126	.....	3
NOS 130	.....	3
		15

Summer Semester

ENG 111	.....	3
Social/Behavior Elective	.....	3
		6

Second Year

Fall Semester		Credits
CIS 115	.....	3
MAT 143 or	.....	3
MAT 171	.....	(4)
NET 225	.....	3
NOS 230	.....	3
SEC 110	.....	3
		15-16

Spring Semester

COM 231	.....	3
Humanities/Fine Arts	.....	3
NET 175	.....	3
NET 226	.....	3
NET 289	.....	3
NOS 120	.....	3
		18

Suggested Curriculum by Semesters—Software Development A.A.S. Degree [A25590P]

First Year

Fall Semester		Credits
CIS 110	.....	3
CIS 115	.....	3
CSC 151	.....	3
CTI 110	.....	3
NOS 110	.....	3
		15

Spring Semester

CSC 134	.....	3
CSC 251	.....	3
CTI 120	.....	3
MAT 143 or	.....	3
MAT 171	.....	(4)
NOS 130	.....	3
		15-16

Summer Semester

ENG 111	.....	3
Social/Behavioral Elective	.....	3
		6

Second Year

Fall Semester		Credits
CTS 115	.....	3
CSC 234	.....	3
DBA 110	.....	3
DBA 120	.....	3
SEC 110	.....	3
WEB 151	.....	3
		18

Spring Semester

CSC 289	.....	3
COM 231	.....	3
CTS 120	.....	3
WEB 251	.....	3
Humanities/FA Elective	.....	3
		15

Suggested Curriculum by Semesters—Service/Support A.A.S. Degree [A25590S]

First Year

Fall Semester		Credits
CIS 110	.....	3
CTI 110	.....	3
CTI 120	.....	3
MAT 143 or	.....	3
MAT 171	.....	(4)
NOS 110	.....	3
		15-16

Spring Semester

CTS 115	.....	3
CTS 120	.....	3
CTS 155	.....	3
NET 110	.....	3
NOS 130	.....	3
		15

Summer Semester

ENG 111	.....	3
Social/Behavior Elective	.....	3
		6

Second Year

Fall Semester		Credits
CIS 115	.....	3
CTS 220	.....	3
DBA 110	.....	3
NOS 120	.....	3
NOS 230	.....	3
SEC 110	.....	3
		18

Spring Semester

COM 231	.....	3
CTI 140	.....	3
CTS 289	.....	3
NOS 231	.....	3
Humanities/FA Elective	.....	3
		15

Information Technology Diploma [D25590]

			Credits
CIS	110	Introduction to Computers.....	3
CIS	115	Introduction to Programing and Logic...3	3
COM	231	Public Speaking.....	3
CTI	110	Web, Programming, & Database Found.3	3
CTI	120	Network & Security Foundation.....	3
CTS	115	Information Systems Business Concepts.3	3
CTS	120	Hardware/Software Support.....	3
ENG	111	Writing and Inquiry	3
NOS	110	Operating Systems Concepts	3
NOS	130	Windows Single User.....	3
SEC	110	Security Concepts.....	3
<i>Take one (1) course from:</i>			
CSC	151	JAVA Programming.....	3
DBA	110	Database Concepts.....	3
NET	110	Networking Concepts.....	3
NOS	230	Windows Administration I.....	3

Total Credit Hours Required for Diploma Program 36

Certificate Option

			Credits
Cisco Certificate [C25590C]			
CTI	120	Network & Security Foundation.....	3
NET	110	Networking Concepts.....	3
NET	125	Networking Basics.....	3
NET	126	Routing Basics.....	3
NET	225	Routing and Switching I.....	3
NET	226	Routing and Switching II	3

Total Credit Hours Required for Certificate Program 18

Computer Science Certificate [C25590T]

CIS	110	Introduction to Computers.....	3
CIS	115	Introduction to Programming and Logic..3	3
CTS	115	Information System Business Concepts...3	3
CSC	134	C++ Programming.....	3
CSC	151	Java Programming	3

Total Credit Hours Required for Certificate Program 15

Database Foundations Certificate [C25590D]

CSC	151	JAVA Programming.....	3
CSC	251	Advanced JAVA Programming.....	3
CTI	110	Web,Programming, & Database Found. .3	3
DBA	110	Database Concepts.....	3
DBA	120	Database Programming.....	3

Total Credit Hours Required for Certificate Program 15

Information Technology Foundations Certificate [C25590I]

CIS	110	Introduction to Computers.....	3
CTI	110	Web, Programming, & Database Found.3	3
CTI	120	Network & Security Foundation.....	3
CTS	115	Information Systems Business Concepts.3	3
CTS	120	Hardware/Software Support.....	3
NOS	110	Operating Systems Concepts	3

Total Credit Hours Required for Certificate Program 18

Information Technology Starter Certificate [C25590A]

CTI	110	Web, Programming, & Database Found.3	3
CTI	120	Network & Security Foundation.....	3
CTS	120	Hardware/Software Support.....	3
CTS	220	Adv Hard/Software Support	3

Total Credit Hours Required for Certificate Program 12

IT Exploration Certificate [C25590E]

Credits

NOS	110	Operating Systems Concepts	.....3
CTI	110	Web, Programming, & Database Found.	3
CTI	120	Network and Security Foundation	.....3
CTS	120	Hardware / Software Concepts	.....3
CTS	155	Tech Support Functions	.....3
NET	125	Introduction to Networks	.....3

Total Credit Hours Required for Certificate Program 18

IT Help Desk Foundations Certificate [C25590H]

CTI	120	Network & Security Foundation	.....3
CTS	120	Hardware/Software Support	.....3
CTS	155	Tech Support functions	.....3
CTS	220	Adv Hard/Software Support	.....3
NOS	110	Operating Systems Concepts	.....3
NOS	130	Windows Single User	.....3

Total Credit Hours Required for Certificate Program 18

Java Certificate [C25590J]

CIS	115	Introductin to Programing and Logic	.....3
CSC	151	JAVA Programming	.....3
CSC	251	Advanced JAVA Programming	.....3
CTI	110	Web, Programming, & Database Found.	3
WEB	151	Mobile App Development I	.....3
WEB	251	Mobile App Development II	.....3

Total Credit Hours Required for Certificate Program 18

Mobile Application Development Certificate [C25590M]

CSC	151	JAVA Programming	.....3
CSC	251	Advanced JAVA Programming	.....3
DBA	110	Database Concepts	.....3
DBA	120	Database Programming	.....3
WEB	151	Mobile App Development I	.....3
WEB	251	Mobile App Development II	.....3

Total Credit Hours Required for Certificate Program 18

Operating Systems Certificate [C25590S]

CTS	115	Information Systems Business Concepts	3
NOS	110	Operating Systems Concepts	.....3
NOS	120	Linux/UNIX Single User	.....3
NOS	130	Windows Single User	.....3
NOS	230	Windows Administration I	.....3
NOS	231	Windows Administration II	.....3

Total Credit Hours Required for Certificate Program 18

Software Development Foundations Certificate [C25590F]

CIS	115	Introduction to Programming and Logic	3
CSC	134	C++ Programming	.....3
CSC	151	JAVA Programming	.....3
CSC	234	Advanced C++ Programming	.....3
CSC	251	Advanced JAVA Programming	.....3
CTI	110	Web, Programming, & Database Found.	3

Total Credit Hours Required for Certificate Program 18

Manicuring/Nail Technology

Certificate Program [C55400]

Curriculum Description

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

Course and Hour Requirements

	Class	Lab	Clinic/Exp	Credits
General Education Required Courses				
None				

Major Required Courses

COS 121	Manicure/Nail Technology I.....			6
COS 222	Manicure/Nail Technology II.....			6

Other Required courses

BUS 110	Introduction to Business.....			3
BUS 270	Professional Development.....			3

Total Major Required Hours..... 18

Total Credit Hours Required for Certificate Program 18

Mechanical Engineering Technology

A.A.S. Degree [A40320]

Certificate Programs [C40320A, C40320C, C40320F and C40320M]

This program has two tracks- the Technical Track and the University Transfer Track. The Technical Track is designed to give you the education and skills needed to get a job as a Mechanical Engineering technician/technologist in the local Mechanical, Manufacturing, and Drafting industry's as well as many other similar job opportunities. The University Transfer Track is transferable to four-year schools in the UNC system that offer a Bachelor of Science in Engineering Technology degree. Graduates who complete their bachelor's degree in Mechanical Engineering Technology should qualify for employment as a Mechanical/Manufacturing engineer and will have many other career paths to choose from. University graduates that finish Mitchell Community College's program first will have an associate's degree that will compliment the university degree. This makes you more desirable to employers!

Curriculum Description

These curriculums are designed to prepare students through the study and application of principles from mathematics, Natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, Natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

A course of study that prepares the students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

TECHNICAL TRACK

Credits

General Education Required Courses

Required Courses

ENG 111	Writing and Inquiry	3
HUM 115	Critical Thinking	3
MAT 171	Precalculus Algebra	4
MAT 172	Precalculus Trigonometry	4
SOC 210	Introduction to Sociology	3

Communications (3 credits)

Take one (1) course from:

COM 110	Introduction to Communication	3
COM 231	Public Speaking	3

Total General Education Required Hours 20

Major Required Courses

DDF 252	Advanced Solid Modeling	3
DFT 151	CAD I	3
DFT 152	CAD II	3
DFT 154	Intro Solid Modeling	3
EGR 250	Statics/Strength of Materials	5
ELC 131	Circuit Analysis	4
HYD 110	Hydraulics/Pneumatics I	3
ISC 112	Industrial Safety	2
MAC 122	CNC Turning	2
MAC 124	CNC Milling	2
MAC 232	CAM: CNC Milling	3
MEC 110	Introduction to CAD/CAM	2
MEC 111	Machine Processes I	3
MEC 130	Mechanisms	3

MEC	145	Manufacturing Materials I.....	3
PHY	151	College Physics I.....	4
		Major Electives	2-4
		<i>(See major electives below)</i>	

Total Major Required Hours..... 50-52

Major Electives

Select 2-4 credits

ATR	112	Introduction to Automation.....	3
ELC	117	Motors and Controls.....	4
ELC	213	Instrumentation	4
ELC	135	Electrical Machines	3
ELN	133	Digital Electronics.....	4
ELN	260	Programmable Logic Controllers	4
MAT	172	Precalculus Trigonometry.....	4
WBL	111	Work-Based Learning I.....	1
WBL	112	Work-Based Learning I.....	2
WLD	110	Cutting Processes.....	2
WLD	141	Symbols and Specifications.....	3

Technical Track Total Credit Hours Required for A.A.S. Degree 70-74

Suggested Curriculum by Semesters for Technical Track

Applies to day offerings. Due to time restraints, evening students should expect to have fewer offerings each semester.

First Year

Fall Semester		Credits
DFT	151	3
MAT	171	4
MEC	110	2
MEC	111	3
Major Elective	.....	2-4
		14-16

Spring Semester

DFT	152	3
ELC	131	4
MAT	172	4
MEC	130	3
MEC	145	3
		17

Summer Semester

COM	110 or	
COM	231	3
Humanities/Fine Arts	.....	3
Social/Behavioral Sciences	.....	3
		9

Second Year

Fall Semester		Credits
DFT	154	3
EGR	250	5
ENG	111	3
MAC	124	2
PHY	151	4
		17

Spring Semester

DDF	252	3
HYD	110	3
ISC	112	2
MAC	122	2
MAC	232	3
		13

Course and Hour Requirements
UNIVERSITY TRANSFER TRACK

Credits

General Education Required Courses

COM	231	Public Speaking	3
ENG	111	Writing and Inquiry	3
HUM	115	Critical Thinking	3
MAT	171	Precalculus Algebra	4
SOC	210	Introduction to Sociology	3

Total General Education Required Hours 16

Major Required Courses

CSC	134	C++ Programming or.....	(3)
CSC	151	JAVA Programming.....	3
DFT	151	CAD I.....	3
DFT	152	CAD II or.....	(3)
DFT	154	Intro Solid Modeling.....	3
EGR	250	Statics/Strength of Materials.....	5
ELC	131	Circuit Analysis.....	4
HYD	110	Hydraulics/Pneumatics I.....	3
MAC	122	CNC Turning.....	2
MAC	124	CNC Milling.....	2
MAT	172	Precalculus Trigonometry.....	4
MEC	110	Introduction to CAD/CAM.....	2
MEC	111	Machine Processes I.....	3
MEC	130	Mechanisms.....	3
MEC	145	Manufacturing Materials I.....	3
PHY	151	College Physics I.....	4
PHY	152	College Physics II.....	4
		Major Electives.....	3-4

(See major electives below)

Total Major Required Hours..... 51-52

Major Electives

Select 3-4 credits

DDF	252	Advanced Solid Modeling.....	3
MAC	232	CAM: CNC Milling.....	3
MAT	271	Calculus I.....	4

(MAT 271 is preferred)

College Transfer Track

Total Credit Hours Required for A.A.S. Degree 67-68

Suggested Curriculum by Semesters for College Transfer Track

Applies to day offerings. Due to time restraints, evening students should expect to have fewer offerings each semester.

First Year

Fall Semester		Credits
DFT	151	.....3
ENG	111	.....3
MAT	171	.....4
MEC	110	.....2
MEC	111	.....3
		15

Spring Semester

ELC	131	.....4
HYD	110	.....3
MAT	172	.....4
MEC	130	.....3
MEC	145	.....3

17

Summer Semester		Credits
Humanities/Fine Arts.....	3	
Social/Behavioral Sciences	3	
		6

Second Year

Fall Semester		
CSC 151	3	
DFT 154 OR		
DFT 170	3	
EGR 250	5	
MAC 124	2	
PHY 151	4	
		17

Spring Semester

COM 110 or		
COM 231	3	
MAC 122	2	
PHY 152	4	
Major Electives.....	3-4	
		12-13

Certificate Options

Credits

Manufacturing Certificate [C40320A]

DFT 151 CAD I.....	3
DFT 154 Intro Solid Modeling or	(3)
DFT 170 Engineering Graphics.....	3
MAC 122 CNC Turning	2
MAC 124 CNC Milling.....	2
MEC 110 Introduction to CAD/CAM	2
MEC 111 Machine Processes I.....	3
MEC 145 Manufacturing Materials I.....	3

Total Credit Hours Required for Certificate Program 18

CAD Drafting Certificate [C40320C]

DDF 252 Advanced Solid Modeling.....	3
DFT 151 CAD I.....	3
DFT 152 CAD II.....	3
DFT 154 Intro Solid Modeling	3
MEC 110 Introduction to CAD/CAM	2

Total Credit Hours Required for Certificate Program 14

Mechanical Fabrication [C40320F]

DFT 151 CAD I.....	3
DFT 154 Intro Solid Modeling or	(3)
DFT 170 Engineering Graphics.....	3
MEC 110 Introduction to CAD/CAM	2
MEC 111 Machine Processes I.....	3
WLD 110 Cutting Processes.....	2
WLD 121 GMAW (MIG) FCAW/Plate.....	4

Total Credit Hours Required for Certificate Program 17

Machining Certificate [C40320M]

DFT 151 CAD I.....3
MAC 122 CNC Turning.....2
MAC 124 CNC Milling.....2
MAC 232 CAM: CNC Milling.....3
MEC 110 Introduction to CAD/CAM.....2
MEC 111 Machine Processes I.....3
MEC 145 Manufacturing Materials I.....3

Total Credit Hours Required for Certificate Program 18

Mechatronics Engineering Technology

A.A.S Degree [A40350]

Certificate Programs [C40350A and C40350M]

Curriculum Description

The Mechatronics Engineering Technology curriculum prepares students to use basic engineering principles and technical skills in developing and testing automation systems including, electrical, electronic, servo, mechanical, fluid power, and other electromechanical systems.

Courses emphasize instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures with an emphasis on automated systems startup, maintenance, and troubleshooting at the systems level.

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. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

ENG 111	Writing and Inquiry	3
HUM 115	Critical Thinking	3
MAT 171	Precalculus Algebra	4
PSY 150	General Psychology	3

Communication (3 credits)

Take one (1) course from:

COM 110	Introduction to Communication	3
COM 120	Intro to Interpersonal Communication	3
COM 231	Public Speaking	3

Total General Education Required Hours 16

Major Required Courses

ATR 112	Introduction to Automation	3
ATR 214	Advanced PLCs	4
CIS 110	Introduction to Computers	3
DFT 170	Engineering Graphics	3
ELC 117	Motor and Controls	4
ELC 131	Circuit Analysis I	4
ELC 133	Circuit Analysis II	4
ELC 213	Instrumentation	4
ELC 215	Electrical Maintenance	3
ELN 133	Digital Electronics	4
ELN 260	Programmable Logic Controllers	4
HYD 110	Hydraulics/Pneumatics I	3
ISC 112	Industrial Safety	2
MEC 111	Machine Processes	3
MEC 130	Mechanisms	3
PHY 151	College Physics	4

Total Major Required Hours..... 55

Total Credit Hours Required for A.A.S. Degree..... 71

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
CIS	110	3
ELN	133	4
ENG	111	3
MAT	171	4
MEC	111	3
		17

Spring Semester

COM	110, 120, 231	3
ELC	131	4
HYD	110	3
MEC	130	3
PHY	151	4
		17

Summer Semester

ELC	117	4
HUM	115	3
PSY	150	3
		10

Second Year

Fall Semester		Credits
ATR	112	3
DFT	170	3
ELC	133	4
ELN	260	4
		14

Spring Semester

ATR	214	4
ELC	213	4
ELC	215	3
ISC	112	2
		13

Certificate Options

		Credits
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Automation Certificate [C40350A]

ATR	112	Intro To Automation	3
ELC	117	Motors and Controls	4
ELN	260	Programmable Logic Controllers	4
ATR	214	Advanced PLCs	4
HYD	110	Hyd/Pneumatics	3

Total Credit Hours Required for Certificate Program 18

Maintenance Certificate [C40350M]

MEC	111	Machine Processes	3
ELC	131	Circuit Analysis	4
ELC	117	Motors and Controls	4
HYD	110	Hyd/Pneumatics	3
ELC	215	Electrical Maintenance	3

Total Credit Hours Required for Certificate Program 17

Medical Assisting

A.A.S Degree [A45400]

Diploma Program [D45400]

Curriculum Description

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, medical transcription, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP-accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

COM	231	Public Speaking	.....3
ENG	111	Writing and Inquiry	.....3
ENG	112	Writing/Research in the Disciplines	.....3
MAT	143	Quantitative Literacy	.....3
PSY	150	General Psychology	.....3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART	111	Art Appreciation	.....3
ART	114	Art History Survey I	.....3
ART	115	Art History Survey II	.....3
ENG	231	American Literature I	.....3
ENG	232	American Literature II	.....3
ENG	242	British Literature II	.....3
ENG	261	World Literature I	.....3
HUM	115	Critical Thinking	.....3
HUM	120	Cultural Studies	.....3
HUM	130	Myth in Human Culture	.....3
MUS	110	Music Appreciation	.....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

Total General Education Required Hours 18

Major Required Courses

BIO	155	Nutrition	.....3
BIO	163	Basic Anatomy and Physiology or	.....5
BIO	168	Anatomy and Physiology I and	.....(4)
BIO	169	Anatomy and Physiology II	.....(4)
BUS	137	Principles of Management	.....3
CIS	110	Introduction to Computers	.....3
MED	110	Orientation to Medical Assisting	.....1
MED	118	Medical Law and Ethics	.....2
MED	121	Medical Terminology I	.....3
MED	122	Medical Terminology II	.....3
MED	130	Administrative Office Procedures I	.....2
MED	131	Administrative Office Procedures II	.....2
MED	140	Exam Room Procedures I	.....5
MED	150	Laboratory Procedures I	.....5
MED	232	Medical Insurance Coding	.....2

MED 260	MED Clinical Practicum.....	5
MED 272	Drug Therapy.....	3

Total Major Required Hours..... 47

Total Credit Hours Required for A.A.S. Degree..... 65

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
BIO 163	.....	5
CIS 110	.....	3
ENG 111	.....	3
MED 110	.....	1
MED 118	.....	2
MED 121 (Fast track)	.....	3
MED 122 (Fast track)	.....	3
MED 130	.....	2
		22

Spring Semester

BIO 155	.....	3
MED 131	.....	2
MED 140	.....	5
MED 150	.....	5
MED 232	.....	2
PSY 150	.....	3
		20

Summer Semester

MED 260	.....	5
		5

Second Year

Fall Semester		Credits
COM 231	.....	3
ENG 112	.....	3
MED 272	.....	3
		9

Spring Semester

BUS 137	.....	3
MAT 143	.....	3
Humanities/Fine Arts	.....	3
		9

Diploma [D45400]

		Credits
BIO 155	Nutrition.....	3
BIO 163	Basic Anatomy and Physiology or.....	5
BIO 168	Anatomy and Physiology I and.....	(4)
BIO 169	Anatomy and Physiology II.....	(4)
CIS 110	Introduction to Computers.....	3
ENG 111	Writing and Inquiry.....	3
MED 110	Orientation to Medical Assisting.....	1
MED 118	Medical Law and Ethics.....	2
MED 121	Medical Terminology I.....	3
MED 122	Medical Terminology II.....	3
MED 130	Administrative Office Procedures I.....	2
MED 131	Administrative Office Procedures II.....	2
MED 140	Exam Room Procedures I.....	5
MED 150	Laboratory Procedures I.....	5
MED 232	Medical Insurance Coding.....	2
MED 260	MED Clinical Practicum.....	5
PSY 150	General Psychology.....	3

Total Credit Hours Required for Diploma Program 47

Medical Laboratory Technology

A.A.S Degree [A45420]

Curriculum Description

The Medical Laboratory Technology curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and immunohematology that may be used in the maintenance of health and diagnosis/treatment of disease.

Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance and reporting/recording and interpreting findings involving tissues, blood, and body fluids.

Graduates may be eligible to take examinations given by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists or the Certifying Agency. Employment opportunities include laboratories in hospitals, medical offices, industry, and research facilities.

Medical Laboratory Technology is an Associate Degree program offered in conjunction with Southwestern Community College who awards the degree. Students may take courses marked with an asterisk (*) at Mitchell Community College. All MLT technical courses are offered online through Southwestern Community College. (This collaboration is geared towards certified practicing phlebotomists.)

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

*ENG 111	Writing and Inquiry	3
*ENG 114	Professional Research and Reporting	3
HUM 115	Critical Thinking	3
*MAT 143	Quantitative Literacy	3
*PSY 150	General Psychology	3

Total General Education Required Hours 15

Major Required Courses

*CHM 131	Introduction to Chemistry and	3
*CHM 131A	Introduction to Chemistry Lab and	1
*CHM 132	Organic Chemistry	4
MLT 110	Introduction to MLT	3
MLT 111	Urinalysis and Body Fluids	2
MLT 116	Anatomy and Medical Terminology	(5)
MLT 120	Hematology/Hemostasis I	4
MLT 126	Immunology and Serology	2
MLT 127	Transfusion Medicine	3
MLT 130	Clinical Chemistry I	4
*BIO 275	Microbiology or	4
MLT 140	Introduction to Microbiology	(3)
MLT 215	Professional Issues	1
MLT 220	Hematology/Hemostasis II	3
MLT 230	Clinical Chemistry II	3
MLT 240	Special Clinical Microbiology	3
MLT 253	MLT Practicum I	3
MLT 263	MLT Practicum II	3
MLT 271	MLT Practicum III	1
MLT 272	MLT Practicum III	2
MLT 273	MLT Practicum III	3
MLT 274	MLT Practicum III	4

Total Major Required Hours..... 52-59

Other Required Hours

ACA 111	College Student Success	1
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Total Credit Hours Required for A.A.S. Degree..... 67-74

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
ACA 111	.....	1
*CHM 131	.....	3
*CHM 131A	.....	1
MAT 143	.....	3
MLT 110	.....	3
MLT 111	.....	2
MLT 116	.....	5
		18

Spring Semester

MLT 120	.....	4
MLT 126	.....	2
MLT 130	.....	4
MLT 251	.....	1
MLT 253	.....	3
*BIO 275 or	.....	4
MLT 140	.....(3)	
		17-18

Summer Semester

*ENG 111	.....	3
*HUM 115	.....	3
PSY 150	.....	3
		9

Second Year

Fall Semester		
*ENG 114	.....	3
MLT 127	.....	3
MLT 220	.....	3
MLT 230	.....	3
MLT 240	.....	3
		15

Spring Semester

MLT 215	.....	1
MLT 261	.....	1
MLT 263	.....	3
MLT 273	.....	3
MLT 276	.....	6
		14

Associate Degree Nursing

A.A.S. Degree [A45110]

Curriculum Description

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.

Note: See Admission requirements for the ADN program outlined in the "Admissions" section beginning on page 17.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

BIO	275	Microbiology.....	4
ENG	111	Writing and Inquiry	3
ENG	112	Writing/Research in the Disciplines or	
ENG	114	Professional Research and Reporting.....	3
PSY	150	General Psychology	3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART	111	Art Appreciation	
ART	114	Art History Survey I	
ART	115	Art History Survey II	
HUM	115	Critical Thinking	
MUS	110	Music Appreciation	
MUS	112	Introduction to Jazz	
PHI	215	Philosophical Issues	
PHI	240	Introduction to Ethics	3

Total General Education Required Hours 16

Major Required Courses

BIO	168	Anatomy and Physiology I.....	4
BIO	169	Anatomy and Physiology II.....	4
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	117	Pharmacology.....	2
NUR	211	Health Care Concepts.....	5
NUR	212	Health System Concepts.....	5
NUR	213	Complex Health Concepts	10
PSY	241	Developmental Psychology.....	3

Total Major Required Hours..... 56

Total Credit Hours Required for A.A.S. Degree..... 72

Suggested Curriculum by Semesters

First Year

Fall Semester		Credits
BIO 168	.....	4
NUR 111	.....	8
NUR 117	.....	2
PSY 150	.....	3
		17

Spring Semester

BIO 169	.....	4
NUR 112	.....	5
NUR 114	.....	5
PSY 241	.....	3
		17

Summer Semester

BIO 275	.....	4
ENG 111	.....	3
		7

Second Year

Fall Semester

ENG 112 or		
ENG 114	.....	3
NUR 113	.....	5
NUR 211	.....	5
		13

Spring Semester

NUR 212	.....	5 (12 weeks)
NUR 213	.....	10
Humanities/Fine Arts	.....	3
		18

Paramedic to Associate Degree Nursing

A.A.S. Degree [A45110PB]

Curriculum Description

The Paramedic to Associate Degree Nursing entry option is designed to allow currently certified paramedics who have completed the A. A. S. Degree in Emergency Medical Science to earn an Associate of Applied Science degree in Nursing. Paramedic graduates will apply to the Paramedic to Associate Degree Nursing Program option (A45110PB) and if accepted will take the transition course of NUR 215 Paramedic to RN Bridge Concepts.

After successful completion of NUR 215 Paramedic to RN Bridge Concepts with grade B or better and completion of required general education coursework with grade C or better, the student will transition into the A45110 major. Credit will be articulated for NUR 111, 117, 112 and 114. Contact the Dean of Nursing for admission requirements.

Prior to acceptance in the A45110 Associate Degree Nursing Program, completed coursework, with C or better, must include:

- PSY 150 General Psychology
- PSY 241 Developmental Psychology
- BIO 168 Anatomy and Physiology I
- BIO 169 Anatomy and Physiology II
- BIO 275 Microbiology
- ENG 111 Writing and Inquiry
- ENG 114 Professional Research and Reporting or ENG 112 Writing/Research in the Discipline
- Humanities Elective (see specific list)
- NUR 215 Paramedic to RN Bridge Concepts completed with a grade of B or better.

Note: See Admission requirements for the ADN program outlined in the "Admissions" section beginning on page 17.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

BIO 275	Microbiology	4
ENG 111	Writing and Inquiry	3
ENG 112	Writing/Research in the Disciplines or	
ENG 114	Professional Research and Reporting	3
PSY 150	General Psychology	3

Humanities/Fine Arts (3 credits)

Take one (1) course from:

ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
HUM 115	Critical Thinking	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	3

Total General Education Required Hours 16

Major Required Courses

BIO 168	Anatomy and Physiology I	4
BIO 169	Anatomy and Physiology II	4
NUR 113	Family Health Concepts	5
NUR 211	Health Care Concepts	5
NUR 212	Health System Concepts	5
NUR 213	Complex Health Concepts	10
NUR 215	Paramedic to RN Bridge Concepts	6

Total Major Required Hours..... 39

Total Credit Hours Required for A.A.S. Degree..... 55

Suggested Curriculum by Semesters

First Year

Spring Semester		Credits
NUR 215	.....	6
PSY 241	.....	3
		9

Summer Semester

BIO 275	.....	4
		4

Second Year

Fall Semester

NUR 113	.....	5
NUR 211	.....	5
		10

Spring Semester

NUR 212	.....	5
NUR 213	.....	10
		15

Nurse Aide

Certificate Program [C45840]

Curriculum Description

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.

Course and Hour Requirements

Credits

General Education Required Courses

None

Major Required Courses

NAS 101	Nurse Aide I.....	6
NAS 102	Nurse Aide II.....	6
NAS 103	Home Health Care Nurse Aide.....	6

Total Major Required Hours..... 18

Total Credit Hours Required for Certificate Program 18

Speech-Language Pathology Assistant

A.A.S. Degree [A45730]

Curriculum Description

The Speech-Language Pathology Assistant curriculum prepares graduates to work under the supervision of a licensed Speech-Language Pathologist, who evaluates, diagnoses, and treats individuals with various communication disorders.

Courses provide instruction in methods of screening for speech, language, and hearing disorders and in following written protocols designed to remedial individual communication problems. Supervised field experiences include working with patients of various ages and with various disorders.

Graduates may be eligible for registration with the North Carolina Board of Examiners for Speech-Language Pathologists and Audiologists and must be supervised by a licensed Speech-Language Pathologist. They may be employed in healthcare or education settings.

Speech-Language Pathology Assistant is an Associate Degree program offered in conjunction with Caldwell Community College and Technical Institute who awards the degree. Students may take courses marked with an asterisk (*) at Mitchell Community College. PSY 265 and all SLP technical courses are offered over the North Carolina Information Highway (NCIH) at Mitchell Community College.

Course and Hour Requirements

Credits

General Education Required Courses

*ENG 111	Writing and Inquiry	3
*ENG 112	Writing/Research in the Disciplines OR.....	
*ENG 114	Professional Research and Reporting.....	3
*MAT 110	Math Measurement and Literacy.....	3
*PSY 150	General Psychology.....	3

Total General Education Required Hours 15

Major Required Courses

*ACA 122	College Transfer Success	1
*BIO 163	Basic Anatomy and Physiology.....	5
*CIS 110	Introduction to Computers or.....	3
CIS 111	Basic PC Literacy.....	(2)
*COM 120	Intro to Interpersonal Communication or	
*COM 231	Public Speaking.....	3
*PSY 241	Developmental Psychology.....	3
PSY 265	Behavioral Modification.....	3
SLP 111	Ethics and Standards for SLPAs.....	3
SLP 112	SLPA Anatomy and Physiology.....	3
SLP 120	SLPA Administrative Procedures and Mgt2	
SLP 130	Phonetics/Speech Patterns.....	3
SLP 140	Normal Communication.....	3
SLP 150	Communication Dis in Diverse Populations..	3
SLP 211	Developmental Disorders.....	4
SLP 212	Acquired Disorders.....	5
SLP 215	Treatment Intervention.....	4
SLP 220	Assistive Technology.....	2
SLP 230	SLPA Fieldwork.....	4
SLP 231	SLPA Fieldwork Seminar.....	3

Total Major Required Hours..... 57-58

Total Credit Hours Required for A.A.S. Degree..... 73-74

Suggested Curriculum by Semesters

First Year

Fall Semester	Credits
*ACA 115 or	
*ACA 122	1
*BIO 163	5
SLP 111	3
SLP 140	3
SLP 150	3
	15

Spring Semester

*ENG 111	3
*PSY 150	3
SLP 112	3
SLP 120	2
SLP 130	3
	14

Summer Semester

*CIS 110 or.....	3
CIS 111	(2)
*COM 120 or	
*COM 231	3
*ENG 112 or	
*ENG 114	3
*MAT 110	3
	11-12

Second Year

Fall Semester

*PSY 241	3
PSY 265	3
SLP 211	4
SLP 215	4
SLP 220	2
	16

Spring Semester

SLP 212	5
SLP 230	4
SLP 231	3
Humanities/Fine Arts.....	3
	15

Welding Technology

A.A.S. Degree [A50420]

Diploma [D50420]

Certificate [C50420W]

Curriculum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

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. Students may be awarded a non-degree credential (i.e., certificate, diploma) after completing a specific portion of the Associate degree program.

Course and Hour Requirements

Credits

General Education Required Courses

Required Courses

ENG 111	Writing and Inquiry	3
HUM 115	Critical Thinking	3
MAT 110	Math Measurement & Literacy	3
PSY 150	General Psychology	3

Communications (3 credits)

Take one (1) course from:

COM 110	Introduction to Communication	3
COM 120	Intro to Interpersonal Communication	3
COM 231	Public Speaking	3

Total General Education Required Hours 15

Major Required Courses

Drafting Requirement (3 credits)

DFT 170	Engineering Graphics	3
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Required Courses

CIS 110	Introduction to Computers	3
ISC 112	Industrial Safety	2
MEC 130	Mechanisms	3
WBL 111**	Work-Based Learning I	1
WBL 115**	Work-Based Learning Seminar I	1
WLD 110	Cutting Processes	2
WLD 115	SMAW (Stick) Plate	5
WLD 116	SMAW (Stick) Plate/Pipe	4
WLD 121	GMAW (MIG) FCAW/Plate	4
WLD 122	GMAW (MIG) Plate/Pipe	3
WLD 131	GTAW (TIG) Plate	4
WLD 132	GTAW (TIG) Plate/Pipe	3
WLD 141	Symbols & Specifications	3
WLD 151	Fabrication I	4

Total Major Required Hours 45

Major Required Courses

PHY 110	Conceptual Physics	3
PHY 110A	Conceptual Physics Lab	1

Total Other Required Hours 4

Total Credit Hours Required for A.A.S. Degree 64

Suggested Curriculum by Semesters

Applies to day offerings. Due to time restraints, evening students should expect to have fewer offerings each semester.

First Year

Fall Semester		Credits
CIS 110	.....	3
MAT 110	.....	3
WLD 110	.....	2
WLD 115	.....	5
WLD 141	.....	3
		16

Spring Semester

WLD 116	.....	4
WLD 121	.....	4
WLD 122	.....	3
WLD 131	.....	4
		15

Summer Semester

ENG 111	.....	3
WLD 132	.....	3
WLD 151	.....	4
		10

Second Year

Fall Semester		
COM 110 or		
COM 120 or		
COM 231	.....	3
DFT 170	.....	3
HUM 115	.....	3
MEC 130	.....	3
PSY 150	.....	3
		15

Spring Semester

ISC 112	.....	2
PHY 110	.....	3
PHY 110A	.....	1
WBL 111	.....	1
WBL 115	.....	1
		8

**WBL 111 and WBL 115 should be taken during the program of study after the completion of a minimum of 12 core semester hours.

Diploma [D50420]

		Credits
CIS 110	Introduction to Computers.....	3
ENG 111	Writing and Inquiry	3
MAT 110	Math Measurement & Literacy	3
WLD 110	Cutting Processes.....	2
WLD 115	SMAW (Stick) Plate	5
WLD 116	SMAW (Stick) Plate/Pipe.....	4
WLD 121	GMAW (MIG) FCAW/Plate.....	4
WLD 122	GMAW (MIG) Plate/Pipe.....	3
WLD 131	GTAW (TIG) Plate.....	4
WLD 132	GTAW (TIG) Plate/Pipe.....	3
WLD 141	Symbols & Specifications.....	3
WLD 151	Fabrication I.....	4

Total Credit Hours Required for Diploma Program 41

Certificate [C50420W]

Credits

WLD 110	Cutting Processes.....	2
WLD 115	SMAW (Stick) Plate.....	5
WLD 121	GMAW (MIG) FCAW/Plate.....	4
WLD 131	GTAW (TIG) Plate.....	4
WLD 141	Symbols & Specifications.....	3

Total Credit Hours Required for Certificate Program 18

Curriculum Course Descriptions

Academic Related

ACA 085 Improving Study Skills 0 2 0 1

Prerequisites: None

Corequisites: None

This course is designed to improve academic study skills and introduce resources that will complement developmental courses and engender success in college-level courses. Topics include basic study skills, memory techniques, note-taking strategies, test-taking techniques, library skills, personal improvement strategies, goal setting, and learning resources. Upon completion, students should be able to apply the techniques learned to improve performance in college-level classes.

ACA 090 Study Skills 3 0 0 3

Prerequisites: None

Corequisites: None

This course is intended for those who placed into credit-level course work but who are not maintaining satisfactory academic progress toward meeting program goals. Topics include study skills, note taking, learning styles and strategies, test taking, goal setting, and self-assessment skills. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

ACA 111 College Student Success 1 0 0 1

Prerequisites: None

Corequisites: None

This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives.

ACA 122 College Transfer Success 0 2 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

Competencies

1. Develop a strategic plan for completing community college academic goals, including certificates, diplomas, and/or associate degrees.
2. Develop a strategic plan for transferring to a university and preparing for a new career.
3. Identify the rights and responsibilities of transfer students under the Comprehensive Articulation Agreement (CAA), including Universal General Education Transfer Component (UGETC) designated courses, the Transfer Assured Admissions Policy (TAAP), the CAA appeals process, and university tuition surcharge.
4. Evaluate learning strategies, including note-taking, test-taking, information processing, time management, and memorization techniques, and identify strategies for improvement.
5. Identify essential college resources, including financial aid, advising, registration, tutoring, library services, computer labs, and counseling services and recognize the importance of these resources on student success.
6. Identify essential college policies and procedures, including academic integrity such as avoiding plagiarism; calculating a GPA, and maintaining satisfactory academic progress for financial aid eligibility and/or good academic standing.

Accounting

ACC 120 Principles of Financial Accounting 3 2 0 4

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ACC 121 Principles of Managerial Accounting 3 2 0 4

Prerequisites: ACC 120

Corequisites: None

College Transfer Course

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ACC 129 Individual Income Taxes 2 2 0 3

Prerequisites: ACC 120

Corequisites: None

This course introduces the relevant laws governing individual income taxation. Topics include tax law, electronic research and methodologies, and the use of technology for preparation of individual tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various individual tax forms.

ACC 130 Business Income Taxes 2 2 0 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 0 2

Prerequisites: ACC 115 or ACC 120

Corequisites: None

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology.

ACC 149 Introduction to Accounting Spreadsheets 1 2 0 2

Prerequisites: ACC 115 or ACC 120

Corequisites: None

This course provides a working knowledge of computer spreadsheets and their use in accounting. Topics include pre-programmed problems, model-building problems, beginning-level macros, graphics, and what-if analysis enhancements of template problems. Upon completion, students should be able to use a computer spreadsheet to complete many of the tasks required in accounting.

AGR 139 Introduction to Sustainable Agriculture 3 0 0 3

Prerequisites: None

Corequisites: None

This course will provide students with a clear perspective on the principles, history and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental and social impacts of agriculture. Upon completion, students will be able to identify the principles of sustainable agriculture as they relate to basic production practices.

Competencies

Student Learning Outcomes

1. Identify sustainable practices in production agriculture.
2. Explain the impact of sustainable agriculture on our environment and our economy.
3. Demonstrate application of sustainable agriculture in a traditional farm management plan.

AGR 140 Agricultural Chemicals 2 2 0 3

Prerequisites: None

Corequisites: None

This course covers all aspects of agricultural chemicals. Topics include safety, environmental effects, federal and state laws, pesticide classification, sprayer calibration, and licensing. Upon completion, students should be able to calibrate a sprayer, give proper pesticide recommendations (using integrated pest management), and demonstrate safe handling of pesticides.

Competencies

Student Learning Outcomes

1. Identify common agricultural pests.
2. Develop an integrated pest management plan on target species.
3. Prepare for the North Carolina Pesticide Applicator's Exam.

AGR 150 Ag-O-Metrics 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces basic calculations for agricultural applications. Topics include the metric system, land measurement, feed efficiency, rate of gain, chemical calibration, and payroll. Upon completion, students should be able to perform calculations that pertain to agricultural production.

AGR 160 Plant Science 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces the basic principles of botany that pertain to agricultural production. Emphasis is placed on the anatomy and physiology of flowering plants. Upon completion, students should be able to identify and explain plant systems.

AGR 170 Soil Science 2 2 0 3

Prerequisites: None

Corequisites: None

This course covers the basic principles of soil management and fertilization. Topics include liming, fertilization, soil management, biological properties of soil (including beneficial microorganisms), sustainable land care practices and the impact on soils, and plant nutrients. Upon completion, students should be able to analyze, evaluate, and properly amend soils/media according to sustainable practices.

Competencies

Student Learning Outcomes

1. Identify the biological properties of soil.
2. Describe sustainable land care practices and how they impact soil quality.
3. Select and apply fertilizers according to sustainable practices.

AGR 210 Agricultural Accounting 1 4 0 3

Prerequisites: None

Corequisites: None

This course covers the basic principles and practices of accounting and bookkeeping as they relate to the agricultural industry. Topics include general accounting terminology, data entry practices, and analysis of records for tax purposes. Upon completion, students should be able to complete a basic record book and analyze records for tax purposes.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

AGR 212	Farm Business Management	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces budgeting, farm analysis, production costs, business organizations, and general management principles. Topics include enterprise budgets, partial budgets, whole farm budgets, income analysis, and business organizations. Upon completion, students should be able to prepare and analyze a farm budget.					
AGR 213	Agriculture Law and Finance	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the basic laws and financial aspects affecting agriculture. Topics include environmental laws, labor laws, contractual business operations, assets, liabilities, net worth, and funding sources. Upon completion, students should be able to complete loan application procedures and explain basic laws affecting the agricultural industry.					
AGR 214	Agricultural Marketing	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product.					
AGR 220	Agricultural Mechanization	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course is a study of farm machinery and agricultural equipment. Topics include selection and operation of tractors, materials handling equipment, tillage and harvesting equipment, and irrigation systems. Upon completion, students should be able to identify equipment parts and explain the basic principles of machinery operation and management.					
AGR 226	Maintaining and Servicing of Production Facilities	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course provides a detailed look at maintaining and servicing of production facilities. Emphasis is placed on maintaining electrical equipment, plumbing systems, mechanical equipment, and basic welding and cutting practices. Upon completion, students should be able to troubleshoot and repair ventilation equipment, pumps and plumbing, feed lines, curtain controls, and basic electrical controls.					
AGR 261	Agronomy	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course provides a basic introduction to field and forage crops. Topics include forage crops, field crops, seed selection, fertility management, field preparation, harvesting, and storage. Upon completion, students should be able to demonstrate a knowledge of forage and field crop production practices.					
AGR 262	Weed ID and Control	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the annual and perennial weeds of economic importance in the southeast. Topics include the life cycles, flowering habits, identification, and control of various weeds in the Southeast. Upon completion, students should be able to identify selected weeds and recommend methods of control.					
AGR 265	Organic Crop Production: Spring	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course includes a study of spring organic crop production practices, including vegetables, cut flowers, and culinary and medicinal herbs. Topics include variety selection, production					

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 0 4

Prerequisites: AHR 110

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 0 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.

Competencies

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 133 HVAC Servicing

2 6 0 4

Prerequisites: None

Corequisites: AHR 112 or AHR 113

The course covers the maintenance and servicing of HVAC equipment. Topics include testing, adjusting, maintaining, and troubleshooting HVAC equipment and record keeping. Upon completion, students should be able to adjust, maintain, and service HVAC equipment.

AHR 151 HVAC Duct Systems I

1 3 0 2

Prerequisites: None

Corequisites: None

This course introduces the techniques used to lay out and fabricate ductwork commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate ductwork. Upon completion, students should be able to lay out and fabricate simple ductwork.

AHR 160 Refrigerant Certification 1 0 0 1

Prerequisites: AHR 110 or permission of instructor

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 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 211 Residential System Design 2 2 0 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.

Competencies

Student Learning Outcomes

1. Design and draw a duct system in accordance with the ACCA Manual D.
2. Apply appropriate HVACR codes to the design of residential HVACR systems.
3. Calculate heating and cooling loads for residential structures in accordance with ACCA Manual J.

AHR 213 HVACR Building Code 1 2 0 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.

Animal Science

ANS 110 Animal Science 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the livestock industry. Topics include nutrition, reproduction, production practices, diseases, meat processing, sustainable livestock production, and marketing. Upon completion, students should be able to demonstrate a basic understanding of livestock production practices and the economic impact of livestock locally, regionally, state-wide, and internationally.

Competencies

Student Learning Outcomes

1. Describe the importance of animal production and explain the major issues related to the production of livestock on an international, national, and state level.
2. Explain the relationship of science and animal production through the studies of biotechnology, technology, genetics, physiology, nutrition, and health.
3. Describe the basic physiology and terminology of the animal industries.
4. Describe the production (including sustainable production) methodologies of the swine, beef, dairy, sheep and horse industries.
5. Recognize the requirements of production animals, and the benefits of proper care, nutrition, genetics, and environment to the animal's productivity levels.

Art

ART 111 Art Appreciation 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts—AA/AS.*

ART 114 Art History Survey I 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

College Transfer Course

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts—AA/AS.*

ART 115 Art History Survey II 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

College Transfer Course

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts—AA/AS.*

ART 116 Survey of American Art 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers the development of American art forms from colonial times to the present. Emphasis is placed on architecture, painting, sculpture, graphics, and the decorative arts. Upon completion, students should be able to demonstrate understanding of the history of the American creative experience. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ART 117 Non-Western Art History 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces non-Western cultural perspectives. Emphasis is placed on, but not limited to, African, Oriental, and Oceanic art forms throughout history. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of non-Western social and cultural development. *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 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces the elements and principles of design as applied to two-dimensional art. Emphasis is placed on the structural elements, the principles of visual organization, and the theories of color mixing and interaction. Upon completion, students should be able to understand and use critical and analytical approaches as they apply to two-dimensional visual art. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ART 266 Videography I 0 6 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces various aspects of basic video production including concept development, scripting, camera operation, and post-production. Emphasis is placed on creative expression, camera handling, story boarding, and editing. Upon completion, students should be able to demonstrate a basic understanding of video camera operation and production techniques. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ART 267 Videography II 0 6 0 3

Prerequisites: ART 266

Corequisites: None

College Transfer Course

This course is designed to provide a framework for the production of a long-term video project. Emphasis is placed on realization of the unique creative vision. Upon completion, students should be able to produce a thematically coherent, edited video with sound and titling. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ART 271 Computer Art II 0 6 0 3

Prerequisites: ART 171

Corequisites: None

College Transfer Course

This course includes advanced computer imaging techniques. Emphasis is placed on creative applications of digital technology. Upon completion, students should be able to demonstrate command of computer systems and applications to express their personal vision. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ART 281 Sculpture I 0 6 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides an exploration of the creative and technical methods of sculpture with focus on the traditional processes. Emphasis is placed on developing basic skills as they pertain to three-dimensional expression in various media. Upon completion, students should be able to show competence in variety of sculptural approaches. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ART 282 Sculpture II 0 6 0 3

Prerequisites: ART 281

Corequisites: None

College Transfer Course

This course builds on the visual and technical skills learned in ART 281. Emphasis is placed on developing original solutions to sculptural problems in a variety of media. Upon completion, students should be able to express individual ideas using the techniques and materials of sculpture. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ART 283 Ceramics I 0 6 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides an introduction to three-dimensional design principles using the medium of clay. Emphasis is placed on fundamentals of forming, surface design, glaze application, and firing. Upon completion, students should be able to demonstrate skills in slab and coil construction, simple wheel forms, glaze technique, and creative expression. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ART 284 Ceramics II 0 6 0 3

Prerequisites: ART 283

Corequisites: None

College Transfer Course

This course covers advanced hand building and wheel techniques. Emphasis is placed on creative expression, surface design, sculptural quality, and glaze effect. Upon completion, students should be able to demonstrate a high level of technical competence in forming and glazing with a development of three-dimensional awareness. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

American Sign Language

ASL 111 Elementary ASL I 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098 or DRE 099

Corequisites: None

College Transfer Course

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. *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 0 3

Prerequisites: "C" or better earned in ASL 111

Corequisites: None

College Transfer Course

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. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

Astronomy

AST 111 Descriptive Astronomy 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences—AA.*

AST 111A Descriptive Astronomy Lab 0 2 0 1

Prerequisites: None

Corequisites: AST 111

College Transfer Course

The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences—AA.*

Automation and Robotics

ATR 112 Introduction to Automation 2 3 0 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 214 Advanced PLCs **3 3 0 4**

Prerequisites: "C" or better earned in ELN 260

Corequisites: None

This course introduces the study of high-level programming languages and advanced I/O modules. Topics include advanced programming languages; system networking; computer interfacing; analog and other intelligent I/O modules; and system troubleshooting. Upon completion, students should be able to write and troubleshoot systems using high-level languages and complex I/O modules.

Banking and Finance

BAF 110 Principles of Banking **3 0 0 3**

Prerequisites: None

Corequisites: None

This course covers the fundamentals of bank functions in a descriptive fashion. Topics include banks and the monetary system, the relationship of banks to depositors, the payment functions, bank loans and accounting, regulations, and examinations. Upon completion, students should be able to demonstrate an understanding of the business of banking from a broad perspective.

Competencies

Student Learning Outcomes

1. Discuss banks and the monetary system.
2. Identify banking regulations and examinations.
3. Describe bank loans and accounting.
4. Define the relationship of banks to depositors.

Biology

BIO 110 Principles of Biology **3 3 0 4**

Prerequisites Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences—AA/AS.*

BIO 111 General Biology I **3 3 0 4**

Prerequisites Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism 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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences—AA/AS.*

BIO 112 General Biology II **3 3 0 4**

Prerequisites: "C" or better earned in BIO 111

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences—AS.*

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

BIO 120 Introductory Botany **3 3 0 4**

Prerequisites: "C" or better earned in BIO 110 or BIO 111

Corequisites: None

College Transfer Course

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants. *This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

BIO 130 Introductory Zoology **3 3 0 4**

Prerequisites: "C" or better earned in BIO 110 or BIO 111

Corequisites: None

College Transfer Course

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups. *This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

BIO 140 Environmental Biology **3 0 0 3**

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. *This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

BIO 140A Environmental Biology Lab **0 3 0 1**

Prerequisites: None

Corequisites: BIO 140

College Transfer Course

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. *This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

BIO 155 Nutrition **3 0 0 3**

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs. Topics include cultural, religious, and economic factors that influence a person's acceptance of food, as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

BIO 163 Basic Anatomy and Physiology **4 2 0 5**

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

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,

If 3 numbers: Class/Lab/Credit; **if 4 numbers:** Class/Lab/Clinic or Exp/Credit

nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

BIO 168 Anatomy and Physiology I 3 3 0 4

Prerequisites: Satisfactory placement or DRE 096; Within the last 5 years a "C" or better earned in one of the following: BIO 110, BIO 111, BIO 163 or high school biology

Corequisites: None

College Transfer Course

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

BIO 169 Anatomy and Physiology II 3 3 0 4

Prerequisites: "C" or better earned in BIO 168

Corequisites: None

College Transfer Course

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

BIO 275 Microbiology 3 3 0 4

Prerequisites: "C" or better earned in BIO 110, BIO 111, BIO 163, BIO 165 or BIO 168

Corequisites: None

College Transfer Course

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

Business

BUS 110 Introduction to Business 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. *This course has been approved for transfer under the CAA and ICAA as a pre-major 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.

BUS 115 Business Law I 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

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 121 Business Math 2 2 0 3

Prerequisites: Satisfactory placement or DMA 010, DMA 020 and DMA 030

Corequisites: Satisfactory placement or DRE 096

This course covers fundamental mathematical operations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts to business.

BUS 125 Personal Finance 3 0 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 137 Principles of Management 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

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 153 Human Resource Management 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

BUS 217 Employment Laws and Regulations 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

This course introduces the principle laws and regulations affecting public and private organizations and their employees or prospective employees. Topics include fair employment practices, EEO, affirmative action, and employee rights and protections. Upon completion, students should be able to evaluate organization policy for compliance and assure that decisions are not contrary to law.

Competencies

Student Learning Outcomes

If 3 numbers: Class/Lab/Credit; **if 4 numbers:** Class/Lab/Clinic or Exp/Credit

1. Define fair employment practices, EEO, affirmative action.
2. Identify employee rights and protections.
3. Evaluate organization policy for compliance.
4. Evaluate decisions to assure they are not contrary to law.

BUS 238 Integrated Management 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096; ACC 120, BUS 110, BUS 115, BUS 121, BUS 137, BUS 153 and MKT 120

Corequisites: None

This course provides a management simulation exercise in which students make critical managerial decisions based upon the situations that arise in operating competitive business enterprises. Topics include operations management, forecasting, budgeting, purchasing, facility layout, aggregate planning, and work improvement techniques. Upon completion, students should be able to perform the variety of analytical and decision-making requirements that will be faced in a business.

BUS 239 Business Applications Seminar 1 2 0 2

Prerequisites: Take One Set:

Set 1: ACC-120, BUS-115, BUS-137, MKT-120, and ECO-151

Set 2: ACC-120, BUS-115, BUS-137, MKT-120, and ECO-251

Set 3: ACC-120, BUS-115, BUS-137, MKT-120, and ECO-252

Corequisites: None

This course is designed as a capstone course for Business Administration majors. Emphasis is placed on decision making in the areas of management, marketing, production, purchasing, and finance. Upon completion, students should be able to apply the techniques, processes, and vital professional skills needed in the work place.

BUS 253 Leadership and Management Skills 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096

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 258 Compensation and Benefits 3 0 0 3

Prerequisites: None

Corequisites: None

This course is designed to study the basic concepts of pay and its role in rewarding performance. Topics include wage and salary surveys, job analysis, job evaluation techniques, benefits, and pay-for-performance programs. Upon completion, students should be able to develop and manage a basic compensation system to attract, motivate, and retain employees.

Competencies

Student Learning Outcomes

1. Describe job analysis and job evaluation techniques.
2. Describe benefits and pay-for-performance programs.
3. Develop and manage a basic compensation system to attract, motivate, and retain employees.
4. Define wage and salary surveys.

BUS 260 Business Communication 3 0 0 3

Prerequisites: CIS 110 and 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.

BUS 270 Professional Development 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

This course provides basic knowledge of self-improvement techniques as related to success in the professional world. Topics include positive human relations, job-seeking skills, and projecting positive self-image. Upon completion, students should be able to demonstrate competent personal and professional skills necessary to get and keep a job.

Chemistry

CHM 131 Introduction to Chemistry 3 0 0 3

Prerequisites: Satisfactory placement or DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 and DRE 096

Corequisites: CHM 131A

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Natural Science.*

CHM 131A Introduction to Chemistry Lab 0 3 0 1

Prerequisites: None

Corequisites: CHM 131

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Natural Science.*

CHM 132 Organic and Biochemistry 3 3 0 4

Prerequisites: "C" or better earned in CHM 131 and CHM 131A or CHM 151

Corequisites: None

College Transfer Course

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields. *This course has been approved for transfer under the CAA and ICAA as a general education course in Natural Science.*

CHM 151 General Chemistry I 3 3 0 4

Prerequisites: Satisfactory placement or

Take One Set:

Set 1: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080 and DRE 096

Set 2: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 065 and DRE 096

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences-AA/AS.*

CHM 152 General Chemistry II 3 3 0 4

Prerequisites: C or better earned in CHM 151

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences-AS.*

Information Systems

CIS 110 Introduction to Computers 2 2 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Mathematics (Quantitative).*

CIS 115 Introduction to Programming and Logic 2 3 0 3

Prerequisites: Satisfactory placement or take one set:

Set 1: DMA 010, DMA 020, DMA 030, and DMA 040

Set 2: DMA 025 and DMA 040

Set 3: MAT 171

Corequisites: None

College Transfer Course

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 manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. *This course has been approved for transfer under the CAA and ICAA as a general education course in Mathematics (Quantitative).*

Criminal Justice

CJC 100 Basic Law Enforcement Training 9 30 0 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 are divided into general units of study: legal, patrol duties, law enforcement communications, investigations, practical application and sheriff-specific. Upon successful completion, the student will be able to demonstrate competence in the topics and areas required for the state comprehensive certification examination. *This is a certificate-level course.*

CJC 111 Introduction to Criminal Justice 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

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 and ICAA as a pre-major and/or elective course requirement.*

CJC 112 Criminology 3 0 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 113 Juvenile Justice 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

CJC 120 Interviews/Interrogations 1 2 0 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 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

CJC 122 Community Policing 3 0 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 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 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.

CJC 141 Corrections 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

CJC 151 Introduction to Loss Prevention 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the concepts and methods related to commercial and private security systems. Topics include the historical, philosophical, and legal basis of security, with emphasis on security surveys, risk analysis, and associated functions. Upon completion, students should be able to demonstrate and understand security systems, risk management, and the laws relative to loss prevention.

CJC 160 Terrorism: Underlying Issues 3 0 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 consideration involving threat assessments. Upon completion, the student should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.

CJC 170 Critical Incident Management for Public Safety 3 0 0 3

Prerequisites: None

Corequisites: None

This course prepares the student to specialize in the direct response, operations, and management of critical incidents. Emphasis is placed upon the theoretical and applied models to understand and manage disasters, terrorism, and school/work place violence. Upon completion, the student should be able to identify and discuss managerial techniques, legal issues, and response procedures to critical incidents.

CJC 212 Ethics and Community Relations 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

CJC 215 Organization and Administration 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations.

CJC 221 Investigative Principles 3 2 0 4

Prerequisites: None

Corequisites: None

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

CJC 222 Criminalistics 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon

If 3 numbers: Class/Lab/Credit; **if 4 numbers:** Class/Lab/Clinic or Exp/Credit

completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

CJC 223 Organized Crime 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the evolution of traditional and non-traditional organized crime and its effect on society and the criminal justice system. Topics include identifying individuals and groups involved in organized crime, areas of criminal activity, legal and political responses to organized crime, and other related topics. Upon completion, students should be able to identify the groups and activities involved in organized crime and the responses of the criminal justice system.

CJC 225 Crisis Intervention 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces critical incident intervention and management techniques as they apply to operational criminal justice practitioners. Emphasis is placed on the victim/offender situation as well as job-related high stress, dangerous or problem-solving citizen contacts. Upon completion, students should be able to provide insightful analysis of emotional, violent, drug-induced, and other critical and/or stressful incidents that require field analysis and/or resolution.

CJC 231 Constitutional Law 3 0 0 3

Prerequisites: None

Corequisites: None

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

CJC 255 Issues in Criminal Justice Application 3 0 0 3

Prerequisites: CJC 111, CJC 221 and CJC 231

Corequisites: None

This course provides an opportunity to exhibit interpersonal and technical skills required for application of criminal justice concepts in contemporary practical situations. Emphasis is placed on critical thinking and integration of theory and practical skills components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level law enforcement officer.

Communication

COM 110 Introduction to Communication 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts (Substitute).*

COM 120 Introduction to Interpersonal Communication 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098 or DRE 099

Corequisites: None

College Transfer Course

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,

If 3 numbers: Class/Lab/Credit; **if 4 numbers:** Class/Lab/Clinic or Exp/Credit

and manage conflict in interpersonal communication situations. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts-AA/AS.*

COM 140 Introduction to Intercultural Communication 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098

Corequisites: None

College Transfer Course

This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the principles and skills needed to become effective in communicating outside one's primary culture. *This course has been approved for transfer under the CAA ICAA as a general education course in English Composition.*

COM 231 Public Speaking 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Communications—AA/AS.*

Cosmetology

COS 111 Cosmetology Concepts I 4 0 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 0 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 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 0 8

Prerequisites: COS 111 and COS 112

Corequisites: None

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

Computer Science

CSC 134 C++ Programming 2 3 0 3

Prerequisites: Satisfactory placement or take one set:
Set 1: DMA 010, DMA 020, DMA 030 and DMA 040
Set 2: DMA 025, DMA 040
Set 3: MAT171

Corequisites: None

College Transfer Course

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

CSC 151 JAVA Programming 2 3 0 3

Prerequisites: Satisfactory placement or take one set:
Set 1: DMA 010, DMA 020, DMA 030 and DMA 040
Set 2: DMA 025, DMA 040
Set 3: MAT171

Corequisites: None

College Transfer Course

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

CSC 234 Advanced C++ Programming 2 3 0 3

Prerequisites: Take CSC 134

Corequisites: None

This course is a continuation of CSC 134 using the C++ programming language with standard programming principles. Emphasis is placed on advanced arrays/tables, file management/processing techniques, data structures, sub-programs, interactive processing, sort/merge routines, and libraries. Upon completion, students should be able to design, code, test, debug and document programming solutions.

CSC 251 Advanced JAVA Programming 2 3 0 3

Prerequisites: Take CSC 151

Corequisites: None

This course is a continuation of CSC 151 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, and implement objects using the appropriate environment.

CSC 289 Programming Capstone Project 1 4 0 3

Prerequisite: Take All: CSC 251, CTI 110, CTI 120, CTS 115, DBA 120 and WEB 151

Corequisites: None

This course provides an opportunity to complete a significant programming project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete a project from the definition phase through implementation.

CUL 140 Culinary Skills I 2 6 0 5

Prerequisites: None

Corequisites: Take CUL 110

This course introduces the fundamental concepts, skills and techniques in basic cookery, and moist, dry and combination heat. Emphasis is placed on recipe conversion, measurements, terminology, classical knife cuts, safe food/equipment handling, flavorings/seasonings, stocks/sauces/soups, and related topics. Upon completion, students should be able to exhibit the basic cooking skills used in the foodservice industry.

CUL 160 Baking I 1 4 0 3

Prerequisites: None

Corequisites: CUL 110 and CUL 160A

This course covers basic ingredients, techniques, weights and measures, baking terminology and formula calculations. Topics include yeast/chemically leavened products, laminated doughs, pastry dough batter, pies/tarts, meringue, custard, cakes and cookies, icings, glazes and basic sauces. Upon completion, students should be able to demonstrate proper scaling and measurement techniques, and prepare and evaluate a variety of bakery products.

CUL 160A Baking I Lab 0 3 0 1

Prerequisites: None

Corequisites: CUL 110 and CUL 160

This course provides a laboratory experience for enhancing student skills in basic baking. Emphasis is placed on the practical experiences of yeast/chemically leavened products, laminated/pastry dough, batter, pies/tarts, meringue, custard, cakes and cookies, icings, glazes and basic sauces. Upon completion, students should be able to demonstrate a basic proficiency in bakeshop applications.

CUL 170 Garde Manger I 1 4 0 3

Prerequisites: None

Corequisites: CUL 110 and CUL 240

This course introduces basic cold food preparation techniques and pantry production. Topics include salads, sandwiches, appetizers, dressings, basic garnishes, cheeses, cold sauces, and related food items. Upon completion, students should be able to present a cold food display and exhibit an understanding of the cold kitchen and its related terminology

CUL 230 Global Cuisines 1 8 0 5

Prerequisites: CUL 110 and CUL 140

Corequisites: None

This course provides practical experience in the planning, preparation, and presentation of representative foods from a variety of world cuisines. Emphasis is placed on indigenous ingredients and customs, nutritional concerns, and cooking techniques. Upon completion, students should be able to research and execute a variety of international and domestic menus

CUL 240 Culinary Skills II 1 8 0 5

Prerequisites: CUL 110 and CUL 140

Corequisites: None

This course is designed to further students' knowledge of the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on meat identification/fabrication, butchery and cooking techniques/methods; appropriate vegetable/starch accompaniments; compound sauces; plate presentation; breakfast cookery; and quantity food preparation. Upon completion, students should be able to plan, execute, and successfully serve entrees with complementary side items

CUL 260 Baking II 1 4 0 3

Prerequisites: CUL 110 and CUL 160

Corequisites: CUL 260A

This course is designed to further students' knowledge in ingredients, weights and measures, baking terminology and formula calculation. Topics include classical desserts, frozen desserts, cake and torte production, decorating and icings/glazes, dessert plating and presentation. Upon completion, students should be able to demonstrate pastry preparation, plating, and dessert buffet production skills.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

CUL 260A Baking II Lab 0 3 0 1

Prerequisites: CUL 110 and CUL 160

Corequisites: CUL 260

This course provides a laboratory experience for enhancing student skills in classical desserts, laminated pastry dough, cake and torte decorating. Topics include practical experiences with classical desserts, frozen desserts, cake and torte production, decorating and icings/glazes, dessert plating and presentation. Upon completion, students should be able to perform cake-decorating techniques, produce pastry showpieces, and prepare and plate assorted pastries.

CUL 270 Garde Manager II 1 4 0 3

Prerequisites: CUL 110, CUL 140 and CUL 170

Corequisites: None

This course is designed to further students' knowledge in basic cold food preparation techniques and pantry production. Topics include pates, terrines, galantines, decorative garnishing skills, carving, charcuterie, smoking, canapés, horsd'oeuvres, and related food items. Upon completion, students should be able to design, set up, and evaluate a catering/event display to include a cold buffet with appropriate showpieces.

CUL 283 Farm to Table 2 6 0 5

Prerequisites: CUL-110 and CUL 140

Corequisites: None

This course introduces students to the cooperation between sustainable farmers and foodservice operations. Emphasis is placed on environmental relationships, including how foods are grown, processed, and distributed, as well as related implications on quality and sustainability. Upon completion, students should be able to demonstrate an understanding of environmental stewardship and its impact on cuisine.

Database Management Technology

DBA 110 Database Concepts 2 3 0 3

Prerequisites: Satisfactory placement or DMA 010, DMA 020 and DRE 096

Corequisites: None

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

DBA 120 Database Programming 2 2 0 3

Prerequisites: Satisfactory placement or DMA 010, DMA 020, and DRE 096

Corequisites: None

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports.

Design Drafting

DDF 252 Advanced Solid Modeling 2 2 0 3

Prerequisites: DFT 153 or DFT 154

Corequisites: None

This course introduces advanced solid modeling and design software. Topics include design principles, design constraints, work planes, view generation, and model shading and rendering. Upon completion, students should be able to create advanced solid models.

Dietetic Technician

Please refer to Gaston College's catalog for DET course descriptions.

Competencies

- Visually represent an integer and its opposite on the number line.
- Explain the concept of the absolute value of an integer.
- Demonstrate the conceptual understanding of operations with integers to solve application problems.
- Correctly apply commutative and associative properties to integer operations.
- Apply the proper use of exponents and calculate the principal square root of perfect squares.
- Simplify multi-step expressions using the rules for order of operations.
- Solve geometric application problems involving area and perimeter of rectangles and triangles, angles, and correctly apply the Pythagorean theorem.

Student Learning Outcomes

1. Demonstrate an understanding of the concept of integers within contextual application problems.
2. Correctly represent integers on a number line.
3. Demonstrate the correct use of additive inverses.
4. Evaluate the absolute value of a number.
5. Apply integer operations in solving contextual application problems.
6. Correctly apply the associative and commutative properties.
7. Demonstrate understanding of exponents by converting between exponential and expanded form.
8. Evaluate exponents.
9. Calculate the square root of numbers containing perfect squares.
10. Evaluate integer expressions by using the correct order of operations.
11. Distinguish between appropriate use of area and perimeter formulas to solve geometric application problems.
12. Use the Pythagorean Theorem to solve geometric problems.
13. Represent the events of a geometric application problem included in this module pictorially, and evaluate the correct solution using the appropriate formula.
14. Demonstrate an understanding of what a variable represents.
15. Evaluate variable expressions and formulas.

DMA 020 Fractions and Decimals

.75 .50 0 1

Prerequisites: Satisfactory placement or DMA 010

Corequisites: Satisfactory placement or DRE 096

This course provides a conceptual study of the relationship between fractions and decimals and covers related problems. Topics include application of operations and solving contextual application problems, including determining the circumference and area of circles with the concept of pi. Upon completion, students should be able to demonstrate an understanding of the connections between fractions and decimals.

Competencies

- Solve contextual application problems involving operations with fractions and decimals.
- Visually represent fractions and their decimal equivalents.
- Simplify fractions.
- Find the lowest common denominator of two fractions.
- Correctly perform arithmetic operations on fractions.
- Explain the relationship between a number and its reciprocal.
- Correctly order fractions and decimals on a number line.
- Convert decimals between standard notation and word form.
- Round decimals to a specific place value.
- Estimate sums, differences, products, and quotients with decimals.
- Demonstrate an understanding of the connection between fractions and decimals.
- Convert between standard notation and scientific notation.
- Solve geometric applications involving the circumference and area of circles.

Student Learning Outcomes

1. Student Learning Outcomes.
2. Solve conceptual problems involving fractions and decimals.
3. Visually represent fractions and decimals.
4. Simplify fractions.
5. Visually represent equivalent fractions and correctly place the values on the number line.
6. Add and subtract fractions with like denominators.
7. Write an equivalent fraction with a given denominator.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

8. Add and subtract fractions with unlike denominators using the correct LCD.
9. Visually represent the sum and difference of two fractions with unlike denominators.
10. Multiply fractions.
11. Visually represent multiplication of fractions.
12. Divide fractions using reciprocals.
13. Correctly round decimals to a specific place value.
14. Estimate sums, differences, products, and quotients with decimals.
15. Demonstrate an understanding of the connection between fractions and decimals.
16. Distinguish between the appropriate use of circumference and area of a circle in solving geometric applications.
17. Represent events in geometric problems pictorially and evaluate the solution using correct formulas.
18. Correlate negative exponents to fractions and decimals in base 10.
19. Convert between standard notation and scientific notation.

DMA 030 Proportion/Ratios/Rates/Percents .75 .50 0 1

Prerequisites: Satisfactory placement or DMA 010 and DMA 020

Corequisites: Satisfactory placement or DRE 096

This course provides a conceptual study of the problems that are represented by rates, ratios, percent, and proportions. Topics include rates, ratios, percent, proportion, conversion of English and metric units, and applications of the geometry of similar triangles. Upon completion, students should be able to use their understanding to solve conceptual application problems.

Competencies

- Apply the concepts of ratio, rates, proportions, and percents to application problems.
- Recognize and choose the correct units in application problems using ratios, rates, and proportions.
- Calculate a unit rate.
- Convert measurements within and between the U.S. customary and metric system using unit analysis.
- Compare percents, decimals, and fractions.
- Apply the concepts of part, whole, and percent to solve contextual applications.

Student Learning Outcomes

1. Demonstrate an understanding of the concepts of ratios, rates, proportions, and percents in the context of application problems.
2. Write a ratio using a variety of notations.
3. Distinguish between events in a problem that should be represented by a ratio or a rate.
4. Calculate a unit rate.
5. Convert measurements within the U.S. customary and metric system using unit analysis.
6. Convert measurements between the U.S customary and metric systems using unit analysis.
7. Represent percent as "parts of 100".
8. Correctly convert between fractions, decimals, and percents.
9. Solve application problems using ratios, rates, proportions, and percents.
10. Recognize that two triangles are similar and solve for unknown sides using proportions in contextual applications.

DMA 040 Expressions/Linear Equations/Inequalities .75 .50 0 1

Prerequisites: Satisfactory placement or one of the following sets:

Set 1: DMA 010, DMA 020, DMA 030

Set 2: DMA 025

Corequisites: Satisfactory placement or DRE 096

This course provides a conceptual study of problems involving linear expressions, equations, and inequalities. Emphasis is placed on solving contextual application problems. Upon completion, students should be able to distinguish between simplifying expressions and solving equations and apply this knowledge to problems involving linear expressions, equations, and inequalities.

Competencies

- Differentiate between expressions, equations, and inequalities.
- Simplify and evaluate, when appropriate, expressions, equations, and inequalities.
- Effectively apply algebraic properties of equality.
- Correctly represent the solution to an inequality on the number line.
- Represent the structure of application problems pictorially and algebraically.

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

- Apply effective problem solving strategies to contextual application problems.
- Demonstrate conceptual knowledge by modeling and solving applications using linear equations and inequalities.

Student Learning Outcomes

1. Demonstrate the use of a problem solving strategy to include multiple representations of the situation, organization of the information, and algebraic representation of linear equations or inequalities.
2. Represent verbal statements as algebraic expressions, equations, and inequalities.
3. Distinguish between problem events that use expressions, equations, or inequalities.
4. Solve linear equations and inequalities in one variable using algebraic properties of equality.
5. Demonstrate an understanding of the meaning of solutions to problems, i.e. identity, contradiction, conditional.
6. Represent solutions of inequalities on a number line.

DMA 050 Graphs/Equations of Lines .75 .50 0 1

Prerequisites: Satisfactory placement or one of the following sets:

Set 1: DMA 010, DMA 020, DMA 030 and DMA 040

Set 2: DMA 025 and DMA 040

Corequisites: Satisfactory placement or DRE 096

This course provides a conceptual study of problems involving graphic and algebraic representations of lines. Topics include slope, equations of lines, interpretation of basic graphs, and linear modeling. Upon completion, students should be able to solve contextual application problems and represent real-world situations as linear equations in two variables.

Competencies

- Read and interpret basic graphs to solve problems.
- Apply the concept of slope as a rate of change in real-world situations.
- Write and graph linear equations in two variables to model real-world situations.
- Represent real-world situations as linear equations in two variables in tabular form, graphically, and algebraically.

Student Learning Outcomes

1. Analyze and interpret basic graphs to solve problems.
2. Represent real world situations in tabular, graphical, and algebraic equation form using two variables.
3. Generate a table of values given an equation in two variables and plot in Cartesian plane to graph a line.
4. Demonstrate an understanding of the concept of slope as a rate of change in real world situations using the slope formula.
5. Find and interpret the x- and y-intercepts of linear models in real world situations.
6. Graph linear equations using a variety of strategies.
7. Given a contextual application, write a linear equation and use the equation to make predictions.
8. Demonstrate a conceptual understanding of horizontal and vertical lines in terms of slope and graphically.
9. Demonstrate a conceptual understanding of the concept of an algebraic function.

DMA 060 Polynomial/Quadratic Applications .75 .50 0 1

Prerequisites: Satisfactory placement or one of the following sets:

Set 1: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050

Set 2: DMA 010, DMA 020, DMA 030, and DMA 045

Set 2: DMA 025, DMA 040, and DMA 050

Set 3: DMA 025 and DMA 045

Corequisites: Satisfactory placement or DRE 096

This course provides a study of problems involving algebraic representations of quadratic equations. Topics include basic polynomial operations, factoring polynomials, and solving polynomial equations by means of factoring. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic applications.

Competencies

- Represent real-world applications as quadratic equations.
- Apply exponent rules.
- Solve application problems involving polynomial operations.

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

- Apply the principles of factoring when solving problems.
- Analyze the graph of a quadratic function.

Student Learning Outcomes

1. Demonstrate the use of a problem solving strategy to include multiple representations of the situation, organization of the information, and algebraic representation of quadratic equations.
2. Add and subtract polynomials.
3. Apply exponent rules.
4. Multiply polynomials.
5. Divide a polynomial by a monomial.
6. Factor trinomials using multiple methods.
7. Factor the difference of two squares.
8. Solve quadratic applications using the zero product property and critique the reasonableness of solutions found.
9. Given the graph of a parabola, identify the vertex and x-intercepts.

DMA 065 Algebra for Precalculus

2.25 1.50 0 3

Prerequisites: Satisfactory placement or one of the following sets:

Set 1: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050

Set 2: DMA 010, DMA 020, DMA 030, and DMA 045

Set 3: DMA 025, DMA 040, and DMA 050

Set 4: DMA 025 and DMA 045

Corequisites: None

This course provides a study of problems involving algebraic representations of quadratic, rational, and radical equations. Topics include simplifying polynomial, rational, and radical expressions and solving quadratic, rational, and radical equations. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic and rational applications.

Competencies

1. Represent real-world applications as quadratic equations
2. Apply exponent rules
3. Solve application problems involving polynomial
4. Apply the principles of factoring when solving problems
5. Represent and solve contextual application problems involving operations on expressions and/or equations
6. Explain the reasonableness of solutions found
7. Solve radical equations
8. Perform operations with radical expressions

Student Learning Outcomes

1. Demonstrate the use of a problem solving strategy to include multiple representations of the situation, organization of the information, and algebraic representation of quadratic and rational equations
2. Add and subtract polynomials
3. Apply exponent rules
4. Multiply polynomials
5. Divide a polynomial by a monomial
6. Factor trinomials using multiple methods
7. Factor the difference of two squares
8. Given the graph of a parabola, identify the vertex and x-intercepts
9. Solve quadratic applications using the zero product property and critique the reasonableness of solutions found
10. Identify the domain of a rational expression
11. Multiply and divide rational expressions
12. Add and subtract rational expressions
13. Solve basic rational equations
14. Use rational exponents to rewrite radical expressions
15. Simplify radical expressions
16. Add and subtract radical expressions
17. Multiply radical expressions
18. Divide radical expressions
19. Solve radical equations with one radical term
20. Solve quadratic equations and applications using the quadratic formula

Digital Media Technology

DME 110 Introduction to Digital Media 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces students to key concepts, technologies, and issues related to digital media. Topics include emerging standards, key technologies and related design issues, terminology, media formats, career paths, and ethical issues. Upon completion, students should be able to demonstrate the various media formats that are used in digital media technology.

DME 115 Graphic Design Tools 2 2 0 3

Prerequisites: None

Corequisites: None

This course provides students with an introduction to creative expression and art/design techniques in a digital environment. Emphasis is placed on designing, creating, editing and integrating visual components consisting of bit-mapped and vector-based images, drawings, banners, text, simple animations, and multiple layers. Upon completion, students should be able to design and produce a range of visual products using digital processing techniques.

DME 120 Introduction to Multimedia Application 2 2 0 3

Prerequisites: DME 110 and DME 115

Corequisites: None

This course introduces storyboarding and multimedia application design. Topics include vector and bit-mapped graphics, interactive multimedia interfaces, layering techniques, image and animation libraries, and scripting. Upon completion, students should be able to produce basic high-quality interactive multimedia applications.

DME 130 Digital Animation I 2 2 0 3

Prerequisites: DME 110 and DME 120

Corequisites: None

This course introduces concepts for planning and developing animation sequences. Emphasis will be placed on review of digital animation concepts and exploration of various animation software packages. Upon completion, students should be able to produce simple animations.

DME 140 Intro to Audio/Video Media 2 2 0 3

Prerequisites: DME 120 and DME 130

Corequisites: None

This course is designed to teach students how to manipulate digital and audio content for multimedia applications. Topics include format conversion and a review of current technologies and digital formats. Upon completion, students should be able to modify existing audio and video content to meet a range of production requirements associated with digital media applications.

DME 210 User Interface Design 2 2 0 3

Prerequisites: DME 110

Corequisites: None

This course covers current design approaches and emerging standards related to the design and development of user interfaces. Emphasis is placed on conducting research, and analyzing and reviewing current practices in effective interface design. Upon completion, students should be able to intelligently discuss and evaluate new and existing digital media products in terms of the user interface.

DME 215 Advanced Graphic Design Tools 2 2 0 3

Prerequisites: DME 115

Corequisites: None

This course provides students with advanced design techniques in a digital environment. Emphasis is placed on understanding principles of design and typography, and applying them effectively in projects. Upon completion, students should be able to design and produce a range of visual products using advanced digital design techniques and principles.

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

DME 270 Professional Practice Digital Media 2 2 0 3

Prerequisites: DME 120, DME 130, DME 215, and GRD 141

Corequisites: None

This course introduces students to business skills needed to succeed in the digital media workplace. Topics include portfolio development, resume design, and preparation of media contacts. Upon completion, students should be able to prepare themselves and their work for a career in the digital media workplace.

DME 285 Systems Project 2 2 0 3

Prerequisites: DME 120, DME 130, DME 210, DME 215, WEB 140 and WEB 210

Corequisites: None

This course provides an opportunity to complete a significant digital media project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete, maintain and implement a digital media project.

Developmental Reading/English

DRE 096 Integrated Reading and Writing 2.5 1 0 3

Prerequisites: None

Corequisites: None

This course is designed to develop proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are primarily taught at the introductory level using texts primarily in a Lexile (TM) range of 960 to 1115. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs. *Please note: (TM) stands for registered trademark.*

Competencies

Student Learning Outcomes

1. Students will demonstrate the use of pre-reading, reading, and post-reading strategies, including using previewing strategies to comprehend texts; activating prior knowledge; identifying text attributes; using context clues; identifying stated main ideas in paragraph-length texts; and making text-to-self connections.
2. Students will demonstrate the use of the writing process (prewriting, drafting, revising, editing, and proofreading), including narrowing the focus of the text, establishing a clear main idea, generating supporting details, and determining appropriate organization.
3. Students will apply critical thinking strategies in reading and writing and demonstrate an understanding of technical and academic language, including the difference between formal and informal language.
4. Students will demonstrate an understanding of purpose, point of view, and tense.
5. Students will demonstrate an understanding of fact and opinion in reading and by writing paragraphs using facts and opinions for support of main ideas.
6. Students will recognize inferences in texts and analyze and evaluate graphic materials in a text.
7. Students will recognize and compose well-developed, coherent, and unified texts, including writing clear topic sentences and relevant body sentences; demonstrating an understanding of specific and adequate supporting information; and analyzing and evaluating body sentences in texts and student writings for specific and adequate support.
8. Students will demonstrate an understanding of coherence through organizational patterns, including employing a variety of organizational patterns to draft texts; and using transitions, key words, and synonyms to connect ideas and achieve coherence in writing.
9. Students will apply the conventions of Standard Written English.

DRE 097 Integrated Reading and Writing II 2.5 1 0 3

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught at a reinforcement level using texts primarily in a Lexile (TM) range of 1070 to 1220. Upon completion, students should be able to demonstrate and apply those skills toward

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

understanding a variety of complex academic and career texts and composing essays incorporating relevant, valid evidence. *Please note: (TM) represents registered trademark.*

Competencies

Student Learning Outcomes

1. Students will demonstrate the use of pre-reading, reading, and post-reading strategies, including applying a variety of previewing strategies to complex texts; activating prior knowledge; identifying important text attributes; using context clues; distinguishing between connotative and denotative meanings and between informal language and Standard Written English; employing introductory metacognitive strategies; identifying stated and implied main ideas at the introductory level; recognizing organizational patterns; responding in writing to complex texts using text-to-text connections; and paraphrasing and summarizing texts at an introductory level.
2. Students will demonstrate the use of the writing process (prewriting, drafting, revising, editing, and proofreading), including narrowing the focus of the text; establishing a clear main idea (thesis statement); generating supporting details for a specific purpose and audience; determining appropriate organization; composing and revising drafts; and using MLA or APA guidelines.
3. Students will apply critical thinking strategies to analyze complex texts and to inform and strengthen their writing, including making logical conclusions based on prior knowledge and inference; understanding the difference between formal and informal language; using types of technical and academic language in complex texts; recognizing figurative language—simile, metaphor, and personification; determining the author’s purpose, point of view, and tone in complex texts; identifying fact and opinion statements in complex texts; demonstrating an understanding of verbal and situational irony; and understanding bias, logical fallacies, and propaganda techniques.
4. Students will identify and write clear thesis statements, including identifying thesis statements in multi-paragraph complex texts, and writing clear, focused thesis statements for essays.
5. Students will demonstrate an understanding of specific and adequate supporting information, including analyzing and evaluating body paragraphs in complex texts and student writings for specific and adequate support; assessing, synthesizing, and integrating relevant and valid evidence from assigned readings to support a main idea; avoiding plagiarism by paraphrasing; and documenting source material using MLA or APA guidelines.
6. Students will achieve unity and coherence in essays, including identifying points that are off-topic in complex texts, and composing body paragraphs that support the thesis statement of an essay.
7. Students will apply the conventions of Standard Written English.
8. Students will employ appropriate technology when composing texts.

DRE 098 Integrated Reading and Writing III

2.5 1 0 3

Prerequisites: Satisfactory placement or DRE 097

Corequisites: None

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are taught using texts primarily in the Lexile (TM) range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay. Note: (TM) represents registered trademark.

Competencies

Student Learning Outcomes

1. Students will demonstrate the use of pre-reading, reading, and post-reading strategies to comprehend texts at the career and college ready level, including activating prior knowledge; identifying important text attributes; using context clues; distinguishing between connotative and denotative meanings and between informal language and Standard Written English; employing metacognitive strategies; identifying stated and implied main ideas and details in career-and-college-ready texts and student writing; text-to-world-connections.
2. Students will demonstrate the use of the writing process (prewriting, drafting, revising, editing, and proofreading), including narrowing the focus of the text; establishing a clear main idea; generating supporting details for a specific purpose and audience; determining appropriate organization; composing and revising drafts; using editing and proofreading strategies to reflect Standard Written English; using MLA or APA guidelines.

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

3. Students will apply critical thinking strategies to analyze texts at the career and college ready level and to inform and strengthen writing, including comprehending figurative language--simile, metaphor, personification; interpreting imagery, symbols, and analogies; determining the author's purpose and point of view; identifying fact and opinion statements; using inference skills; demonstrating an understanding of verbal and situational irony; understanding bias, logical fallacies, and propaganda techniques; and demonstrating consistent point of view, clear purpose, appropriate tone, and appropriate use of facts and expert opinions.
4. Students will recognize and compose well-developed, coherent, and unified texts, including clear thesis statements and specific and adequate supporting information; analyzing and evaluating body paragraphs in texts at the career-and-college-ready level and in student writing; assessing, synthesizing, and integrating relevant and valid evidence; employing a variety of organizational patterns to draft texts and using transitional strategies to connect ideas and achieve coherence; avoiding plagiarism by paraphrasing; and documenting source material using MLA or APA guidelines.
5. Students will apply the conventions of Standard Written English.
6. Students will employ appropriate technology when composing texts.

DRE 099 Integrated Reading and Writing III

2 0 0 2

Prerequisites: Satisfactory placement or DRE 097

Corequisites: ENG 111

This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies by complementing, supporting and reinforcing material covered in ENG 111. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught using texts primarily in the Lexile (TM) range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay. Note: (TM) represents registered trademark.

Competencies

Student Learning Outcomes

1. Students will demonstrate the use of pre-reading, reading, and post-reading strategies to comprehend texts at the career and college ready level, including activating prior knowledge; identifying important text attributes; using context clues; distinguishing between connotative and denotative meanings and between informal language and Standard Written English; employing metacognitive strategies; identifying stated and implied main ideas and details in texts at the career and college ready level and student writing; recognizing organizational patterns; summarizing; and responding to texts using text-to-world connections.
2. Students will demonstrate the use of the writing process (prewriting, drafting, revising, editing, and proofreading), including narrowing the focus of the text; establishing a clear main idea; generating supporting details for a specific purpose and audience; determining appropriate organization; composing and revising drafts; using editing and proofreading strategies to reflect Standard Written English; using MLA or APA guidelines.
3. Students will apply critical thinking strategies to analyze texts at the career and college ready level and to inform and strengthen writing, including comprehending figurative language - -simile, metaphor, personification; interpreting imagery, symbols, and analogies; determining the author's purpose and point of view; identifying fact and opinion statements; using inference skills; demonstrating an understanding of verbal and situational irony; understanding bias, logical fallacies, and propaganda techniques; and demonstrating consistent point of view, clear purpose, appropriate tone, and appropriate use of facts and expert opinions.
4. Students will recognize and compose well-developed, coherent, and unified texts, including clear thesis statements and specific and adequate supporting information; analyzing and evaluating body paragraphs in texts at the career and college ready level and student writing; assessing, synthesizing, and integrating relevant and valid evidence; employing a variety of organizational patterns to draft texts and using transitional strategies to connect ideas and achieve coherence; avoiding plagiarism by paraphrasing; and documenting source material using MLA or APA guidelines.
5. Students will apply the conventions of Standard Written English.
6. Students will employ appropriate technology when composing texts.

Economics

ECO 251 Principles of Microeconomics 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Social/Behavioral Sciences—AA/AS.

ECO 252 Principles of Macroeconomics 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Social/Behavioral Sciences—AA/AS.*

Education

EDU 119 Introduction to Early Childhood Education 4 0 0 4

Prerequisites: None

Corequisites: None

This course introduces the foundations of early childhood education, the diverse educational settings for young children, professionalism and planning intentional developmentally appropriate experiences for each child. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to design a career/professional development plan, and appropriate environments, schedules, and activity plans.

EDU 126 Early Childhood Seminar I 2 0 0 2

Prerequisites: EDU 119 and EDU 221

Corequisites: Satisfactory placement or DRE 097

This course introduces the students to the early childhood classroom setting and the roles that professionals play in that setting. Emphasis is placed on observations of children/teachers in the classroom, and the use of assessment tools to enhance planning and implementation of curricular experiences. Upon completion, students should be able to use various child assessment tools, determine developmental characteristics of children, and plan developmentally appropriate curricula.

EDU 131 Child, Family, and Community 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 097

This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/resources. Upon completion, students should be able to explain appropriate relationships between families, educators, and professionals that enhance development and educational experiences of all children.

EDU 144 Child Development I 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 097

This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development.

EDU 145 Child Development II 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 097

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development.

EDU 146 Child Guidance 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 097

This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self control and the role of communication and guidance. Upon completion, students should be able to demonstrate direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors.

EDU 151 Creative Activities 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 097

This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and environments.

EDU 153 Health, Safety, & Nutrition 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 097

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.

EDU 154 Social/Emotional/Behavioral Development 3 0 0 3

Prerequisites: EDU 144 and EDU 145

Corequisites: Satisfactory placement or DRE 097

This course covers the emotional/social development of children and the causes, expressions, prevention and management of challenging behaviors in all children. Emphasis is placed on caregiver/family/child relationships, positive emotional/social environments, developmental concerns, risk factors, and intervention strategies. Upon completion, students should be able to identify factors influencing emotional/social development, utilizing screening measures, and designing positive behavioral supports.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

EDU 262 Early Childhood Administration II 3 0 0 3

Prerequisites: EDU 261

Corequisites: Satisfactory placement or DRE 098; EDU 119

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 271 Educational Theory 2 2 0 3

Prerequisites: None

Corequisites: Take DRE 098 or ENG 111

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 280 Language and Literacy Experiences 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 098

This course is designed to expand students' understanding of children's language and literacy development and provides strategies for enhancing language/literacy experiences in an enriched environment. Topics include selection of diverse literature and interactive media, the integration of literacy concepts throughout the curriculum, appropriate observations/assessments and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate and diverse language/literacy experiences.

EDU 281 Instructional Strategies/Reading and Writing 2 2 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 098

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 284 Early Childhood Capstone Practices 1 9 0 4

Prerequisites: EDU 119, EDU 144, EDU 145, EDU 146, EDU 151, and instructor consent

Corequisites: Satisfactory placement or DRE 098

This course is designed to allow students to apply 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/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

EDU 288 Advanced Issues/Early Childhood Education 2 0 0 2

Prerequisites: None

Corequisites: Satisfactory placement or DRE 098

This course covers advanced topics and issues in early childhood. Emphasis is placed on current advocacy issues, emerging technology, professional growth experiences, and other related topics. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues in early childhood education.

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

EGR 216 Logic and Network Lab 0 3 0 1

Prerequisites: MAT 272 and PHY 251

Corequisites: EGR 212 and EGR 215

College Transfer Course

This course provides laboratory experiments in network measurements and logic design and laboratory equipment and techniques. Topics include network measurement and applications, experimental logic design and introduction to laboratory equipment and techniques. Upon completion, students should be able to complete network measurement logic design and be able to use laboratory equipment with proper techniques. *This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

EGR 220 Engineering Statics 3 0 0 3

Prerequisites: PHY 251

Corequisites: MAT 272

College Transfer Course

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 and ICAA as a premajor and/or elective course requirement.*

EGR 225 Engineering Dynamics 3 0 0 3

Prerequisites: EGR 220

Corequisites: MAT 273

College Transfer Course

This course introduces the concepts of engineering based on the analysis of motion in Cartesian, cylindrical, and spherical coordinate systems. Topics include the two and three dimensional motion of particles and rigid bodies, the forces associated with that motion, and relative motion between two coordinate systems. Upon completion, students should be able to solve problems which require the ability to analyze the motion and forces involved in a dynamic system. *This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

EGR 228 Introduction to Solid Mechanics 3 0 0 3

Prerequisites: EGR 220

Corequisites: None

College Transfer Course

This course provides an introduction to engineering theory of deformable solids and applications. Topics include stress and deformation resulting from axial, torsion, and bending loads; shear and moment diagrams; Mohr's circle of stress; and strain and buckling of columns. Upon completion, students should be able to analyze solids subject to various forces and design systems using a variety of materials. *This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

EGR 250 Statics/Strength of Materials 4 3 0 5

Prerequisites: MAT 171

Corequisites: None

This course includes vector analysis, equilibrium of force systems, friction, sectional properties, stress/strain, and deformation. Topics include resultants and components of forces, moments and couples, free-body diagrams, shear and moment diagrams, trusses, frames, beams, columns, connections, and combined stresses. Upon completion, students should be able to analyze simple structures.

EGR 285 Design Project 0 4 0 2

Prerequisites: **Take One Set:**

Set 1: ELN 131, ELN 152, ELN 232 and "C" or better earned in PHY 151

Set 2: ELN 110, MAC 124 and "C" or better earned in PHY 151

Corequisites: None

This course provides the opportunity to design an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate projects.

Electrical

ELC 113 Residential Wiring

2 6 0 4

Prerequisites: None

Corequisites: None

FA

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 114 Commercial Wiring

2 6 0 4

Prerequisites: ELC 113

Corequisites: None

This course provides instruction in the application of electrical tools, materials, and test equipment associated with commercial electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with commercial 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 commercial electrical circuits.
3. Draw, plan, and interpret electrical plans and symbols used in commercial applications.
4. Identify, size, and install wiring and electrical distribution equipment and devices associated with commercial electrical installations in accordance with the National Electrical Code.
5. Recognize and demonstrate appropriate use of tools and materials that are used in commercial wiring.

ELC 115 Industrial Wiring

2 6 0 4

Prerequisites: ELC 113

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 117 Motors and Controls 2 6 0 4

Prerequisites: None

Corequisites: None

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

Competencies

Student Learning Outcomes

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 control circuits.
3. Interpret and use ladder and wiring diagrams, symbols, and schematics.
4. Demonstrate and describe the use of relays, contactors, motor starters and pilot devices in electrical control circuits.
5. Describe principles and operations related to electrical control circuits.
6. Describe the concepts of rotating electrical machinery.

ELC 119 NEC Calculations 1 2 0 2

Prerequisites: None

Corequisites: None

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 131 Circuit Analysis 3 3 0 4

Prerequisites: 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 0 1

Prerequisites: None

Corequisites: ELC 131

This course provides laboratory assignments as applied to fundamental principles of DC/AC electricity. Emphasis is placed on measurements and evaluation of electrical components, devices and circuits. Upon completion, the students will gain hands-on experience by measuring voltage, current, and opposition to current flow utilizing various meters and test equipment.

ELC 133 Circuit Analysis II 3 3 0 4

Prerequisites: ELC 131 and MAT 171

Corequisites: None

This course covers additional concepts of DC/AC electricity, the use of test equipment, and measurement techniques. Topics include the application of network theorems such as delta/wye transformations, Superposition Theorem, and other advanced circuit analysis principles. Upon completion, students should be able to construct and analyze DC/AC circuits used advanced circuit analysis theorems, circuit simulators, and test equipment.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

ELN 232 Introduction to Microprocessors 3 3 0 4

Prerequisites: "C" or better earned in ELN 133

Corequisites: None

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

ELN 260 Programmable Logic Controllers 3 3 0 4

Prerequisites: None

Corequisites: None

This course provides a detailed study of PLC applications, with a focus on design of industrial controls using the PLC. Topics include PLC components, memory organization, math instructions, documentation, input/output devices, and applying PLCs in industrial control systems. Upon completion, students should be able to select and program a PLC system to perform a wide variety of industrial control functions.

Emergency Medical Science

EMS 110 EMT 6 6 0 8

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: EMS 110

Corequisites: EMS 130

This course provides the introductory hospital clinical experience for the paramedic student. Emphasis is placed on mastering fundamental paramedic skills. Upon completion, students should be able to demonstrate competence with fundamental paramedic level skills.

EMS 130 Pharmacology 3 3 0 4

Prerequisites: EMS 110

Corequisites: EMS 122

This course introduces the fundamental principles of pharmacology and medication administration and is required for paramedic certification. Topics include medical terminology, pharmacological concepts, weights, measures, drug calculations, vascular access for fluids and medication administration and legislation. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology.

EMS 131 Advanced Airway Management 1 2 0 2

Prerequisites: EMS 110

Corequisites: None

This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics include respiratory anatomy and physiology, airway/ventilation, adjuncts, surgical intervention, and rapid sequence intubation. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.

EMS 160 Cardiology I 1 3 0 2

Prerequisites: 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 basic rhythm interpretation in the monitoring leads. Upon completion, students should be able to recognize and interpret basic rhythms.

EMS 220	Cardiology II	2	3	0	3
Prerequisites: 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, application and interpretation of advanced electrocardiography utilizing the twelve-lead ECG, cardiac pharmacology, and patient care. Upon completion, students should be able to assess and treat patients utilizing American Heart Association guidelines.					
EMS 221	EMS Clinical Practicum II	0	0	6	2
Prerequisites: EMS 122 and EMS 130					
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: EMS 130 and EMS 221					
Corequisites: None					
This course provides clinical experiences in the hospital and/or field. Emphasis is placed on enhancing the students' skills and abilities in providing advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.					
EMS 240	Patients with Special Challenges	1	2	0	2
Prerequisites: EMS 122 and EMS 130					
Corequisites: None					
This course includes concepts of crisis intervention and techniques of interacting with patients with special challenges and is required for paramedic certification. Topics include appropriate intervention and interaction for neglected, abused, terminally ill, chronically ill, technology assisted, bariatric, physically challenged, mentally challenged, or assaulted patients as well as behavioral emergencies. Upon completion, students should be able to recognize and manage the care of patients with special challenges.					
EMS 241	EMS Clinical Practicum IV	0	0	12	4
Prerequisites: EMS 130 and EMS 231					
Corequisites: None					
This course provides clinical experiences in the hospital and/or field. Emphasis is placed on mastering the skills/competencies required of the paramedic providing advanced-level care. Upon completion, students should be able to provide advanced-level patient care as an entry-level paramedic.					
EMS 250	Medical Emergencies	3	3	0	4
Prerequisites: EMS 122 and EMS 130					
Corequisites: None					
This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include appropriate interventions/treatments for disorders/diseases/injuries affecting the following systems: respiratory, neurological, abdominal/gastrointestinal, endocrine, genitourinary, musculoskeletal, and immunological as well as toxicology, infectious diseases and diseases of the eyes, ears, nose and throat. Upon completion, students should be able to recognize, assess and manage the care of frequently encountered medical conditions based upon initial patient assessment.					
EMS 260	Trauma Emergencies	1	3	0	2
Prerequisites: EMS 122 and EMS 130					
Corequisites: None					
This course provides in-depth study of trauma including pharmacological interventions for conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include an overview of thoracic, abdominal, genitourinary, orthopedic, neurological, and multi-system trauma, soft tissue trauma of the head, neck, and face as well as environmental emergencies. Upon completion, students should be able to recognize and manage trauma situations based upon patient assessment and should adhere to standards of care.					

EMS 270 Life Span Emergencies 2 3 0 3

Prerequisites: EMS 122 and EMS 130

Corequisites: None

This course covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death required for paramedic certification. Topics include gynecological, obstetrical, neonatal, pediatric, and geriatric emergencies and pharmacological therapeutics. Upon completion, students should be able to recognize and treat age-specific emergencies.

EMS 285 EMS Capstone 1 3 0 2

Prerequisites: 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.

English

ENG 111 Writing and Inquiry 3 0 0 3

Prerequisites: Satisfactory placement or DRE 098

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in English Composition—AA/AS.*

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. Reflect upon and explain the 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 0 3

Prerequisites: "C" or better earned in ENG 111

Corequisites: None

College Transfer Course

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 and ICAA as a universal general education transfer component course (UGETC) in English Composition—AA/AS.*

ENG 114 Professional Research and Reporting 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

College Transfer Course

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. *This course has been approved for transfer under the CAA and ICAA as a general education course in English Composition.*

ENG 125 Creative Writing I 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

College Transfer Course

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 pre-major and/or elective course requirement.*

ENG 126 Creative Writing II 3 0 0 3

Prerequisites: ENG 125

Corequisites: None

College Transfer Course

This course is designed as a workshop approach for advancing imaginative and literary skills. Emphasis is placed on the discussion of style, techniques, and challenges for first publications. Upon completion, students should be able to submit a piece of their writing for publication. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

ENG 231 American Literature I 3 0 0 3

Prerequisites: "C" or better earned in ENG 112, ENG 113 or ENG 114

Corequisites: None

College Transfer Course

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts—AA/AS.*

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 0 3

Prerequisites: "C" or better earned in ENG 112, ENG 113 or ENG 114

Corequisites: None

College Transfer Course

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts—AA/AS.*

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 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 232 Major American Writers 3 0 0 3

Prerequisites: Take one: ENG 112, ENG 113 or ENG 114

Corequisites: None

This course provides an intensive study of the works of several major American authors. Emphasis is placed on American history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied.

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

ENG 241 British Literature I 3 0 0 3

Prerequisites: "C" or better earned in ENG 112, ENG 113 or ENG 114

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ENG 242 British Literature II 3 0 0 3

Prerequisites: "C" or better earned in ENG 112, ENG 113 or ENG 114

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ENG 261 World Literature I 3 0 0 3

Prerequisites: "C" or better earned in ENG 112, ENG 113 or ENG 114

Corequisites: None

College Transfer Course

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. 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 selected works. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ENG 262 World Literature II 3 0 0 3

Prerequisites: "C" or better earned in ENG 112, ENG 113 or ENG 114

Corequisites: None

College Transfer Course

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century 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 selected works. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

ENG 273 African-American Literature 3 0 0 3

Prerequisites: Take one: ENG 112, ENG 113 or ENG 114

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a premajor and/or elective course requirement.*

Emergency Preparedness

EPT 140 Emergency Management 3 0 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.

Fire Protection

FIP 120 Introduction to Fire Protection 3 0 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 relates 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 Prevention and Public Education 3 0 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 128 Detection and Investigation 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers procedures for determining the origin and cause of accidental and incendiary fires referenced in NFPA standard 921. Topics include collection and preservation of evidence, detection and determination of accelerants, courtroom procedure and testimony, and documentation of the fire scene. Upon completion, students should be able to conduct a competent fire investigation and present those findings to appropriate officials or equivalent.

Competencies

Student Learning Outcomes

1. Identify key case law decisions that have affected fire investigations.
2. Describe proper evidence collection.
3. Describe proper courtroom procedures.
4. Explain the basic elements of fire dynamics and how they affect cause determination.
5. Present evidence and findings from an arson scene to a defined audience.

FIP 132 Building Construction 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers the principles and practices reference in NFPA standard 220 related to various types of building construction, including residential and commercial, as impacted by fire conditions. Topics include types of construction and related elements, fire resistive aspects of construction materials, building codes, collapse, and other related topics. Upon completion, students should be able to understand and recognize various types of construction and their positive or negative aspects as related to fire conditions.

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 placed on buildings during fires and fire suppression activities.
4. Identify the indicators of potential structural failure as they relate to firefighter safety.
5. Classify major types of building construction according to materials and methods used.

FIP 136 Inspections and Codes

3 0 0 3

Prerequisites: None

Corequisites: None

This course covers the fundamentals of fire and building codes and procedures to conduct an inspection referenced in NFPA standard 1730. Topics include review of fire and building codes, writing inspection reports, identifying hazards, plan reviews, site sketches, and other related topics. Upon completion, students should be able to conduct a fire code compliance inspection and produce a written report.

Competencies

Student Learning Outcomes

1. Describe the relationship of fire and building codes as they relate to a community.
2. Define the elements of a fire inspection program including application and the interpretation of codes, standards, and recommended practices.
3. Demonstrate an understanding of the code adoption process and the basis for each jurisdiction to enact such codes and regulations.
4. Demonstrate the ability to conduct a fire code compliance inspection and produce a written report.
5. Review a building drawing and identify fire systems.

FIP 146 Fire Protection Systems

3 2 0 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 152 Fire Protection Law

3 0 0 3

Prerequisites: None

Corequisites: None

This course covers fire protection law as referenced in NFPA standard 1. Topics include legal terms, contracts, liability, review of case histories, and other related topics. Upon completion, students should be able to discuss laws, codes, and ordinances as they relate to fire protection.

Competencies

Student Learning Outcomes

1. Define and describe the different types of laws within various levels of government.
2. Explain the purpose of national codes and standards.
3. Define and describe liability and negligence as it applies to fire and emergency services.
4. Discuss applicable court decisions influencing emergency services.
5. Explain current and emerging legal issues affecting emergency service delivery.

FIP 220 Fire Fighting Strategies 3 0 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 221 Advanced Fire Fighting Strategies 3 0 0 3

Prerequisites: FIP 220

Corequisites: None

This course covers command-level operations for multi-company/agency operations involving fire and non-fire emergencies. Topics include advanced use of the Incident Command System (ICS), advanced incident analysis, command-level fire operations, and control of both man made and natural major disasters. Upon completion, students should be able to describe proper and accepted systems for the mitigation of emergencies at the level of overall scene command.

Competencies

Student Learning Outcomes

1. Describe the relationship between the fire department, local/state government, and the federal government in large scale and extended duration incidents requiring state and federal assistance or involvement.
2. Explain strategic goals and tactical objectives for multi-family, commercial, and industrial/manufacturing fire incidents involving multiple agencies.
3. Discuss operational considerations for special situations and occupancies including hotels, high rise structures, health care facilities, and public assembly/school buildings.
4. Identify operational considerations for hazardous materials and terrorism incidents, and identify roles and responsibilities of responders from various agencies.

FIP 224 Fire Instructor I and II 4 0 0 4

Prerequisites: None

Corequisites: None

This course covers the knowledge, skills, and abilities needed to train others in fire service operations. Topics include planning, presenting, and evaluating lesson plans, learning styles, use of media, communication, and other related topics. Upon completion, students should be able to meet the requirements of the Fire Instructor I and II objectives from National Fire Protection Association (NFPA) 1041.

Competencies

Student Learning Outcomes

1. Describe the skills and abilities needed to train others in the fire service.
2. Develop a lesson plan for a selected topic.
3. Demonstrate an educational program for delivery to a defined audience.
4. Identify safety considerations in various fire safety training scenarios and make appropriate provisions for a safe learning environment.
5. Demonstrate utilization of different types of media in an educational environment.

FIP 226 Fire Officer I and II 4 0 0 4

Prerequisites: None

Corequisites: None

This course covers the knowledge, skills, and requirements referenced in the National Fire Protection Association (NFPA) Standard 1021 for Fire Officer I and II training. Topics include officer roles and responsibilities, budgets, fire cause determination, inspections, education, leadership, management, public relations, and other requirements included in the NFPA

FIP 232 Hydraulics and Water Distribution 2 2 0 3

Prerequisites: None

Corequisites: None

This course covers the flow of fluids through fire hoses, nozzles, appliances, pumps, standpipes, water mains, and other devices reference 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.

FIP 240 Fire Service Supervision 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers supervisory skills and practices in the fire protection field. Topics include the supervisor's job, supervision skills, the changing work environment, managing change, organizing for results, discipline and grievances, and safety. Upon completion, students should be able to demonstrate an understanding of the roles and responsibilities of effective fire service supervision, meeting elements of NFPA 1021.

Competencies

Student Learning Outcomes

1. Describe the importance and necessity of supervisory skills and practices within the fire protection and emergency services.
2. Develop disciplinary action plan.
3. Demonstrate the process for dealing with a grievance.
4. Demonstrate an understanding of the roles and responsibilities of effective fire service supervision.
5. Administer an employee performance evaluation.

FIP 244 Fire Protection Project 3 0 0 3

Prerequisites: None

Corequisites: None

This course provides an opportunity to apply knowledge covered in previous courses to employment situations that the fire protection professional will encounter referenced in NFPA standard 1001. Emphasis is placed on the development of comprehensive and professional practices. Upon completion, students should be able to demonstrate knowledge of the fire protection service through written and performance evaluations.

Competencies

Student Learning Outcomes

1. Demonstrate the ability to develop a comprehensive program for a defined project.
2. Develop an educational program for delivery to a defined audience.
3. Demonstrate the ability to gather research about the fire service to defend decisions made within the fire service.

FIP 276 Managing Fire Services 3 0 0 3

Prerequisites: None

Corequisites: None

This course provides an overview of fire department operative services referenced in NFPA standard 1021. Topics include finance, staffing, equipment, code enforcement, management information, specialized services, legal issues, planning, and other related topics. Upon completion, students should be able to understand concepts and apply fire department management and operations principles.

Competencies

Student Learning Outcomes

1. Define the standards of efficiency and optimization.
2. Define the framework of management and planning in the fire service.
3. Develop management policies and plans for fire prevention and investigation practices.
4. Explain the concepts of human resource management of public organizations.
5. Explain how modern fire services function as all-hazards organizations.

French

FRE 111 Elementary French I 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098 or DRE 099

Corequisites: None

College Transfer Course

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

FRE 112 Elementary French II 3 0 0 3

Prerequisites: "C" or better earned in FRE 111

Corequisites: None

College Transfer Course

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

Geography

GEO 130 General Physical Geography 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces both the basic physical components that help shape the earth and the study of minerals, rocks, and evolution of landforms. Emphasis is placed on the geographic grid, cartography, weather, climate, mineral composition, fluvial processes, and erosion and deposition. Upon completion, students should be able to identify these components and processes and explain how they interact. *This course has been approved for transfer under the CAA and ICAA as a general education course in Social/Behavioral Sciences.*

German

GER 111 Elementary German I 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098 or DRE 099

Corequisites: None

College Transfer Course

This course introduces the fundamental elements of the German 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 German and demonstrate cultural awareness. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

GER 112 Elementary German II 3 0 0 3

Prerequisites: "C" or better earned in GER 111

Corequisites: None

College Transfer Course

This course is a continuation of GER 111 focusing on the fundamental elements of the German 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 German and demonstrate further cultural awareness. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

Graphic Design

GRD 110 Typography I **2 2 0 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 141 Graphic Design I **2 4 0 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 281 Design of Advertising **1 3 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 produce advertising for various media and demonstrate an understanding of the complexities and relationships involved in advertising design.

Gerontology

GRO 120 Gerontology **3 0 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.

Health

HEA 110 Personal Health/Wellness **3 0 0 3**

Prerequisites: None

Corequisites: None

College Transfer Course

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 pre-major and/or elective course requirement.*

HEA 112 First Aid and CPR **1 2 0 2**

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

HIS 151 Hispanic Civilization 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course surveys the cultural history of Spain and its impact on the New World. Topics include Spanish and Latin American culture, literature, religion, and the arts. Upon completion, students should be able to analyze the cultural history of Spain and Latin America. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

HIS 221 African-American History 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African Americans. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the history of African Americans. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

HIS 236 North Carolina History 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

Healthcare Management

HMT 110 Introduction to Healthcare Management 3 0 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 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 Long-Term Care Administration 3 0 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.

HSE 123	Interviewing Techniques	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course covers the purpose, structure, focus, and techniques employed in effective interviewing. Emphasis is placed on observing, attending, listening, responding, recording, and summarizing of personal histories with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to function in the helping relationship.					
HSE 125	Counseling	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course covers the major approaches to psychotherapy and counseling, including theory, characteristics, and techniques. Emphasis is placed on facilitation of self-exploration, problem solving, decision making, and personal growth. Upon completion, students should be able to understand various theories of counseling and demonstrate counseling techniques.					
HSE 210	Human Services Issues	2	0	0	2
Prerequisites: Successful completion of 12 Credits in the HSE program					
Corequisites: None					
This course covers current issues and trends in the field of human services. Emphasis is placed on contemporary topics with relevance to special issues in a multi-faceted field. Upon completion, students should be able to integrate the knowledge, skills, and experiences gained in classroom and clinical experiences with emerging trends in the field.					
HSE 220	Case Management	2	2	0	3
Prerequisites: HSE 110					
Corequisites: None					
This course covers the variety of tasks associated with professional case management. Topics include treatment planning, needs assessment, referral procedures, and follow-up and integration of services. Upon completion, students should be able to effectively manage the care of the whole person from initial contact through termination of services.					
HSE 225	Crisis Intervention	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the basic theories and principles of crisis intervention. Emphasis is placed on identifying and demonstrating appropriate and differential techniques for intervening in various crisis situations. Upon completion, students should be able to assess crisis situations and respond appropriately.					
HSE 240	Issues in Client Services	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces systems of professional standards, values, and issues in the helping professions. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics relative to multicultural counseling and research. Upon completion, students should be able to understand and discuss multiple ethical issues applicable to counseling and apply various decision-making models to current issues.					

Humanities

HUM 115	Critical Thinking	3	0	0	3
Prerequisites: Satisfactory placement or DRE 097 and DRE 098					
Corequisites: None					
<i>College Transfer Course</i>					
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. <i>This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.</i>					

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

HUM 120 Cultural Studies 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098

Corequisites: None

College Transfer Course

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 130 Myth in Human Culture 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098

Corequisites: None

College Transfer Course

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

HUM 160 Introduction to Film 2 2 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 098

College Transfer Course

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

HUM 180 International Cultural Exploration 2 3 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides a framework for students to visit, examine, and analyze a country/region outside the United States to learn about the place and people. Emphasis is placed on the distinctive cultural characteristics of a country or region. Upon completion, students should be able to identify similarities/differences, analyze causes/effects, and clearly articulate the impact of one or more cultural elements. *This course has been approved for transfer under the CAA as a pre-major and/or elective course requirement.*

Hydraulics

HYD 110 Hydraulics/Pneumatics I 2 3 0 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.

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 2 0 0 2

Prerequisites: None

Corequisites: None

This course introduces the principles of industrial safety. Emphasis is placed on industrial safety and OSHA regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.

ISC 115 Construction Safety 2 0 0 2

Prerequisites: None

Corequisites: None

SP

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.

Latin

LAT 111 Elementary Latin I 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098 or DRE 099

Corequisites: None

College Transfer Course

This course introduces the fundamental elements of Latin within a cultural context. Emphasis is placed on the development of basic reading and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to written Latin and demonstrate cultural awareness. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

LAT 112 Elementary Latin II 3 0 0 3

Prerequisites: "C" or better earned in LAT 111

Corequisites: None

College Transfer Course

This course is a continuation of LAT 111 focusing on the fundamental elements of Latin within a cultural context. Emphasis is placed on the progressive development of reading, vocabulary, and grammar skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to written Latin and demonstrate further cultural awareness. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

Machining

MAC 114 Intro to Metrology 2 0 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 use of measuring instruments.

MAC 122 CNC Turning 1 3 0 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 0 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 232 CAM: CNC Milling 1 4 0 3

Prerequisites: MAC 124 and MEC 110

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 234 Advanced Multi-Axis Machining 2 3 0 3

Prerequisites: None

Corequisites: None

This course includes multi-axis machining using machining centers with multi-axis capabilities. Emphasis is placed on generation of machining center input with a CAM system and setup of pallet changer and rotary system for multi-axis machining fixtures. Upon completion, students should be able to convert CAD to output for multi-axis machining centers, including tooling, setup, and debugging processes.

Mathematics

MAT 110 Math Measurement and Literacy 2 2 0 3

Prerequisites: Take One Set:

Set 1: DMA 010, DMA 020, and DMA 030

Set 2: DMA 025

Corequisites: None

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 143 Quantitative Literacy 2 2 0 3

Prerequisites: Take One Set:

Set 1: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DRE 098

Set 2: DMA 010, DMA 020, DMA 030, DMA 045, and DRE 098

Set 3: DMA 025, DMA 040, DMA 050, and DRE 098

Set 4: DMA 025, DMA 045, and DRE 098

Corequisites: None

College Transfer Course

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 and ICAA as a general education course in Mathematics (Quantitative). This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Mathematics-AA.*

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 0 4

Prerequisites: Take One Set:

Set 1: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DRE 098

Set 2: DMA 010, DMA 020, DMA 030, DMA 045, and DRE 098

Set 3: DMA 025, DMA 040, DMA 050, and DRE 098

Set 4: DMA 025, DMA 045, and DRE 098

Corequisites: None

College Transfer Course

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 and ICAA as a universal general education transfer component course (UGETC) in Mathematics—AA.*

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 0 4

Prerequisites: Take One Set:

Set 1: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, and DMA 080

Set 2: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DMA 065

Set 3: DMA 010, DMA 020, DMA 030, DMA 045, DMA 060, DMA 070, and DMA 080

Set 4: DMA 010, DMA 020, DMA 030, DMA 045, and DMA 065

Set 5: DMA 025, DMA 040, DMA 050, DMA 060, DMA 070, and DMA 080

Set 6: DMA 025, DMA 040, DMA 050, and DMA 065

Set 7: DMA 025, DMA 045, DMA 060, DMA 070, and DMA 080

Set 8: DMA 025, DMA 045, and DMA 065

Corequisites: None

College Transfer Course

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 and ICAA as a universal general education transfer component course (UGETC) in Mathematics—AA/AS.*

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.

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 0 4

Prerequisites: "C" or better earned in MAT 271

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in 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 0 4

Prerequisites: "C" or better earned in MAT 272

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in 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 Green's, 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 0 3**

Prerequisites: "C" or better earned in MAT 271

Corequisites: None

College Transfer Course

This course provides an introduction to linear algebra topics. Emphasis is placed on the development of abstract concepts and applications for vectors, systems of equations, matrices, determinants, vector spaces, multi-dimensional linear transformations, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to linear algebra-related problems with and without technology. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

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.

MAT 285 Differential Equations **2 2 0 3**

Prerequisites: "C" or better earned in MAT 272

Corequisites: None

College Transfer Course

This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and LaPlace transforms. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to differential equations-related problems with and without technology. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

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.

Mechanical

MEC 110 Introduction to CAD/CAM 1 2 0 2

Prerequisites: None

Corequisites: None

This course introduces CAD/CAM. Emphasis is placed on transferring part geometry from CAD to CAM for the development of a CNC-ready program. Upon completion, students should be able to use CAD/CAM software to produce a CNC program.

MEC 111 Machine Processes I 1 4 0 3

Prerequisites: None

Corequisites: None

This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to safely machine simple parts to specified tolerances.

MEC 130 Mechanisms 2 2 0 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 145 Manufacturing Materials I 2 3 0 3

Prerequisites: None

Corequisites: None

This course introduces a variety of manufacturing materials and common processing techniques. Emphasis is placed on the processing, testing, and application of materials such as wood, metals, plastics, ceramics, and composites. Upon completion, students should be able to demonstrate an understanding of fundamental engineering applications for a variety of materials, including their process capabilities and limitations.

Competencies

Student Learning Outcomes

1. Identify the physical and mechanical properties of ferrous and non-ferrous materials.
2. Identify the physical and mechanical properties of plastics, ceramics, and composites
3. Compare and contrast various primary metal work
4. Compare and contrast material finishing operations.
5. Discuss various testing procedures and results of each on various materials.
6. Apply and demonstrate OSHA safety procedures with the various manufacturing processes and testing procedures.

MEC 231 Computer-Aided Manufacturing I 1 4 0 3

Prerequisites: None

Corequisites: None

This course introduces computer-aided design/ manufacturing (CAD/CAM) applications and concepts. Topics include software, programming, data transfer and verification, and equipment setup. Upon completion, students should be able to produce parts using CAD/CAM applications.

MEC 232 Computer-Aided Manufacturing II 1 4 0 3

Prerequisites: MEC 231

Corequisites: None

This course provides an in-depth study of CAM applications and concepts. Emphasis is placed on the manufacturing of complex parts using computer-aided manufacturing software. Upon completion, students should be able to manufacture complex parts using CAM software.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

MED 150 Laboratory Procedures I 3 4 0 5

Prerequisites: Enrollment in the Medical Assisting Diploma program, "C" or better earned in BIO 163 or BIO 168 and BIO 169, MED 118 and MED 122

Corequisites: MED 140

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics.

MED 232 Medical Insurance Coding 1 3 0 2

Prerequisites: Enrollment in the Medical Assisting Diploma program, "C" or better earned in BIO 163 or BIO 168 and BIO 169, MED 122, MED 130

Corequisites: None

This course is designed to develop coding skills. Emphasis is placed on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement.

MED 260 MED Clinical Practicum 15 0 0 5

Prerequisites: "C" or better earned in ENG 111, CIS 110, BIO 155, MED 110, MED 118, MED 131, MED 140, MED 150, MED 232 and PSY 150. Enrollment in the Medical Assisting Diploma program.

Corequisites: None

This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional.

MED 272 Drug Therapy 3 0 0 3

Prerequisites: MED 260; must earn a grade of "C" or better in MED 260

Corequisites: None

This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.

Marketing and Retailing

MKT 120 Principles of Marketing 3 0 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.

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 122 Visual Merchandising 3 0 0 3

Prerequisites: None

Corequisites: Satisfactory placement or DRE 096

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.

MUS 121 Music Theory I 3 0 0 3

Prerequisites: Non

Corequisites: None

College Transfer Course

This course provides an introduction to the musical elements of melody, rhythm, and harmony. Emphasis is placed upon the interaction of these elements through fundamental analysis and an introduction to part writing. Upon completion, students should be able to demonstrate understanding of melodic voice leading, rhythmic functions within simple and compound meters, and simple harmonic progressions. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 122 Music Theory II 3 0 0 3

Prerequisites: MUS 121

Corequisites: None

College Transfer Course

This course provides a comprehensive study of diatonic harmony. Emphasis is placed on voice leading tasks, part writing, and analysis using various labeling systems. Upon completion, students should be able to demonstrate harmonic principles through four-voice part writing, recognize and label non-harmonic tones, analyze chords using Roman numerals, figured bass, and lead sheet symbols, and classify small-scale phrase structure and cadence types. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 125 Aural Skills I 0 2 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides an introduction to the fundamentals in aural skills. Emphasis is placed on the study of basic melodies, harmonies, and rhythms through sight singing and ear training. Upon completion, students should be able to identify diatonic intervals, scales, and chords and perform and dictate simple melodies and rhythmic patterns. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 126 Aural Skills II 0 2 0 1

Prerequisites: MUS 125

Corequisites: None

College Transfer Course

This course provides a foundation in aural skills. Emphasis is placed on the development of sight singing and ear training skills in diatonic melody, diatonic harmonic progression, and rhythmic patterns. Upon completion, students should be able to fluently read music in treble and bass clefs; utilize any solmization system while sight singing simple diatonic melodies; identify elementary diatonic chord progressions; perform rhythms in simple and compound meters; and dictate diatonic melodic, diatonic harmonic, and advanced rhythmic patterns. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 131 Chorus I 0 2 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 132 Chorus II 0 2 0 1

Prerequisites: MUS 131

Corequisites: None

College Transfer Course

This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 141 Ensemble I 0 2 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides an opportunity to perform in any combination of instrumental, vocal, or keyboard groups of two or more. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 142 Ensemble II 0 2 0 1

Prerequisites: MUS 141

Corequisites: None

College Transfer Course

This course is a continuation of MUS 141. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 151 Class Music I 0 2 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides group instruction in skills and techniques of the particular instrument or voice for those with little or no previous experience. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance—*Colleges may use a letter suffix to designate a specific instrument or voice, for example MUS 151P for piano. This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 152 Class Music II 0 2 0 1

Prerequisites: MUS 151

Corequisites: None

College Transfer Course

This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. *Colleges may use a letter suffix to designate a specific instrument or voice, for example MUS 152P for piano. This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 161 Applied Music I 1 2 0 2

Prerequisites: Enrollment in the A.F.A.—Music (A10700)

Corequisites: None

College Transfer Course

This course provides individual instruction in the skills and techniques of the particular instrument or voice. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. *Colleges may use a letter suffix to designate a specific instrument or voice, for example MUS 161P for piano. This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 162 Applied Music II 1 2 0 2

Prerequisites: Enrollment in the A.F.A.—Music (A10700) and MUS 161

Corequisites: None

College Transfer Course

This course is a continuation of MUS 161. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. *Colleges may use a letter suffix to designate a specific instrument or voice, for example MUS 162P for piano. This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 221 Music Theory III 3 0 0 3

Prerequisites: MUS 122

Corequisites: None

College Transfer Course

This course provides a comprehensive study of chromatic harmony. Emphasis is placed on advanced voice leading tasks, part writing, and analysis of chord progressions, modulations, and large-scale forms. Upon completion, students should be able to identify, notate, and analyze an array of chromatic chords, recognize the function and movement of chromatic harmonies, identify modulatory procedures, analyze formal structures including, but not limited to, binary, ternary, sonata, and rondo. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 222 Music Theory IV 3 0 0 3

Prerequisites: MUS 221

Corequisites: None

College Transfer Course

This course provides an advanced study of chromatic harmony, scale systems, and an introduction to twentieth-century music. Emphasis is placed on advanced part writing and analysis of chromatic harmony and basic twentieth-century compositional and analytical techniques. Upon completion, students should be able to analyze complex chord progressions, advanced modulations, and elemental serial procedures; build an array of synthetic scales; and identify characteristics of twentieth-century topics including, but not limited to, atonality, serialism, minimalism, indeterminacy, and electronic music. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 225 Aural Skills III 0 2 0 1

Prerequisites: MUS 126

Corequisites: None

College Transfer Course

This course provides advanced aural skills training in diatonicism and basic aural skills training in chromaticism. Emphasis is placed on the development of sight singing and ear training skills in complex rhythmic patterns, diatonic melodies and harmonies, and basic chromaticism. Upon completion, students should be able to utilize any solmization system while sight singing diatonic melodies with functional and non-functional chromaticism, fluently read music in multiple clefs in addition to treble and bass, identify modulations, perform complex rhythmic patterns in various meters, and dictate tonal melodies and harmonies including chromaticism. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 226 Aural Skills IV 0 2 0 1

Prerequisites: MUS 126

Corequisites: None

College Transfer Course

This course provides advanced aural skills training in diatonicism and chromaticism. Emphasis is placed on the development of sight singing and ear training skills in chromatic melodies, chromatic harmonies, and complex rhythmic patterns. Upon completion, students should be able to utilize any solmization system while sight singing melodies containing significant chromaticism; fluently read music in multiple clefs, including treble, bass, alto, and tenor; perform and dictate rhythmic patterns in irregular and changing meters; and dictate diatonic and chromatic melodies and harmonic progressions. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 231 Chorus III 0 2 0 1

Prerequisites: MUS 132

Corequisites: None

College Transfer Course

This course is a continuation of MUS 132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

MUS 232 Chorus IV 0 2 0 1

Prerequisites: MUS 231

Corequisites: None

College Transfer Course

This course is a continuation of MUS 231. Emphasis is placed on vocal techniques and the study of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 233 Band III 0 2 0 1

Prerequisites: MUS 134

Corequisites: None

College Transfer Course

This course is a continuation of MUS 134. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 234 Band IV 0 2 0 1

Prerequisites: MUS 233

Corequisites: None

College Transfer Course

This course is a continuation of MUS 233. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 235 Jazz Ensemble III 0 2 0 1

Prerequisites: MUS 136

Corequisites: None

College Transfer Course

This course is a continuation of MUS 136. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 236 Jazz Ensemble IV 0 2 0 1

Prerequisites: MUS 235

Corequisites: None

College Transfer Course

This course is a continuation of MUS 235. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 237 Orchestra III 0 2 0 1

Prerequisites: MUS 138

Corequisites: None

College Transfer Course

This course is a continuation of MUS 138. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

MUS 271 Music History I 3 0 0 3

Prerequisites: MUS 122

Corequisites: None

College Transfer Course

This course is the first of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from Antiquity through the Baroque Period. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

MUS 272 Music History II 3 0 0 3

Prerequisites: MUS 271

Corequisites: None

College Transfer Course

This course is the second of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from the Classical Period to the present. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

Nurse Aide

NAS 101 Nurse Aide I 3 4 3 6

Prerequisites: None

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.

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.

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.

Networking Technology

NET 110 Networking Concepts 2 2 0 3

Prerequisites: Satisfactory placement or DMA 010, DMA 020, and DRE 096 and take CTI 120

Corequisites: None

This course introduces students to the networking field. Topics include network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

NET 125 Introduction to Networks 1 4 0 3

Prerequisites: Satisfactory placement or DMA 010, DMA 020, and DRE 096

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.

NET 126 Routing Basics 1 4 0 3

Prerequisites: NET 125

Corequisites: None

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs.

NET 175 Wireless Technology 2 2 0 3

Prerequisites: CTI 120

Corequisites: None

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.

NET 225 Routing and Switching I 1 4 0 3

Prerequisites: NET 126

Corequisites: None

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP.

NET 226 Routing and Switching II 1 4 0 3

Prerequisites: NET 225

Corequisites: None

This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, and describe the Spanning Tree protocol.

NET 289 Networking Project 1 4 0 3

Prerequisites: Take All: CTI 110, CTI 120, CTS 115, NET 110, NET 225, NOS 230

Corequisites: None

This course provides an opportunity to complete a significant networking project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete a project from the definition phase through implementation.

Networking Operating System

NOS 110 Operating System Concepts 2 3 0 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.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

NOS 120 Linux/UNIX Single User 2 2 0 3

Prerequisites: NOS 110

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 0 3

Prerequisites: NOS 110

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 Administration I 2 2 0 3

Prerequisites: NOS 130

Corequisites: None

This course covers the installation and configuration of a Windows Server operating system. Emphasis is placed on the basic configuration of core network services, Active Directory and group policies. Upon completion, students should be able to install and configure a Windows Server operating system.

NOS 231 Windows Administration II 2 2 0 3

Prerequisites: NOS 230

Corequisites: None

This course covers the management of a Windows Server operating system. Emphasis is placed on the deployment of print services, network services, Active Directory, group policies and access controls. Upon completion, students should be able to deploy and manage services on a Windows Server operating system.

Nursing

NUR 111 Introduction to Health Concepts 4 6 6 8

Prerequisites Enrollment in the Associate Degree Nursing program

Corequisites BIO 168, NUR 117, and 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 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 "C" or better earned in BIO 168, and PSY 150, and "B" or better earned in NUR 111 and 117

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 "C" or better earned in BIO 168, BIO 169, BIO 275, ENG 111, PSY 150, and PSY 241 and "B" or better earned in NUR 111, NUR 112, NUR 114 and NUR 117

Corequisites ENG 112 or ENG 114

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 "C" or better earned in BIO 168, PSY 150 and "B" or better earned in NUR 111, NUR 112 and NUR 117

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, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 117 Pharmacology 1 3 0 2

Prerequisites: Enrollment in the Associate Degree Nursing program

Corequisites: NUR 111

This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability, pharmacokinetics, routes of medication administration, contraindications and side effects. Upon completion, students should be able to compute dosages and administer medication safely.

NUR 211 Health Care Concepts 3 0 6 5

Prerequisites "C" or better earned in BIO 168, BIO 169, BIO 275, ENG 111, PSY 150, PSY 241, and "B" or better earned in NUR 111, NUR 112, NUR 114, and NUR 117

Corequisites ENG 112 or ENG 114

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 "C" or better earned in BIO 168, BIO 169, BIO 275, ENG 111, ENG 112, PSY 150, PSY 241, and "B" or better earned in NUR 111, NUR 112, NUR 113, NUR 114, NUR 117, and NUR 211

Corequisites NUR 213

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 "B" or better earned in NUR 111, NUR 117, and "C" or better earned in BIO 168, BIO 169, BIO 275, ENG 111, ENG 112, PSY 150, and PSY 241

Corequisites "B" or better earned in NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212

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 215 Paramedic to RN Bridge Concepts 3 3 6 6

Prerequisites Acceptance in the A45110PB Paramedic to Associate Degree Nursing Bridge Program

Corequisites None

This course is designed to introduce concepts within the three domains of the individual, healthcare, and nursing as the Associate Degree in Emergency Medical Science Paramedic transitions to the nursing role. Emphasis is placed on the concepts within each domain including evidenced-based practice, quality improvement, communication, safety, interdisciplinary team, collaboration, clinical decision-making, professional behaviors, informatics, assessment, perfusion, oxygenation, elimination, and cellular regulation. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Office Systems Technology

OST 134	Text Entry and Formatting	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability. More advanced business documents such as itineraries, agendas, newsletters, international formatting features, medical documents, legal documents, office forms, and publications are introduced.					
OST 135	Advanced Text Entry and Format	2	2	0	3
Prerequisites: OST 134					
Corequisites: None					
This course is designed to incorporate computer application skills in the generation of office documents. Emphasis is placed on advanced document production with increased speed and accuracy. Upon completion, students should be able to make independent decisions regarding planning, style, and method of presentation.					
OST 164	Office Editing	3	0	0	3
Prerequisites: None					
Corequisites: Satisfactory placement or DRE 097 and DRE 098 or DRE 099; OST 134					
This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text.					
OST 181	Office Procedures	2	2	0	3
Prerequisites: OST 134					
Corequisites: None					
This course introduces the skills and procedures needed in today's office. Topics include effectively interacting with co-workers and the public, processing simple financial and informational documents, and performing functions typical of today's offices. Upon completion, students should be able to display skills and decision-making abilities essential for functioning in the total office context. In addition, telephone techniques, mail services, travel arrangements, meeting/conference planning, and employment document preparation are introduced.					
OST 184	Records Management	2	2	0	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.					
OST 247	Procedure Coding	2	2	0	3
Prerequisites: MED 121					
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	0	3
Prerequisites: MED 121					
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	0	3
Prerequisites: 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 the AAPC CPC Exam.					

OST 289 Office Administration Capstone 2 2 0 3

Prerequisites: OST 164 and either OST 134 or OST 136

Corequisites: None

This course is designed to be a capstone course for the office professional and provides a working knowledge of modern office procedures. Emphasis is placed on written and oral communication skills, office software applications, office procedures, ethics, and professional development. Upon completion, students should be able to adapt in an office environment.

Physical Education

PED 110 Fit and Well for Life 1 2 0 2

Prerequisites: None

Corequisites: None

College Transfer Course

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 111 Physical Fitness I 0 3 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 113 Aerobics I 0 3 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 117 Weight Training I 0 3 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 121 Walk, Jog, Run 0 3 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 122 Yoga I **0 2 0 1**

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 123 Yoga II **0 2 0 1**

Prerequisites: PED 122

Corequisites: None

College Transfer Course

This course introduces more detailed aspects of the discipline of yoga. Topics include breathing and physical postures, relaxation, and mental concentration. Upon completion, students should be able to demonstrate advanced procedures of yoga. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 125 Self-Defense—Beginning **0 2 0 1**

Prerequisites: None

Corequisites: None

College Transfer Course

This course is designed to aid students in developing rudimentary skills in self-defense. Emphasis is placed on stances, blocks, punches, and kicks as well as non-physical means of self-defense. Upon completion, students should be able to demonstrate basic self-defense techniques of a physical and non-physical nature. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 128 Golf—Beginning **0 2 0 1**

Prerequisites: None

Corequisites: None

College Transfer Course

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion, students should be able to perform the basic golf shots and demonstrate a knowledge of the rules and etiquette of golf. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 137 Badminton **0 2 0 1**

Prerequisites: None

Corequisites: None

College Transfer Course

This course covers the fundamentals of badminton. Emphasis is placed on the basics of serving, clears, drops, drives, smashes, and the rules and strategies of singles and doubles. Upon completion, students should be able to apply these skills in playing situations. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 139 Bowling—Beginning **0 2 0 1**

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 233 Ju-Jitsu 0 3 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces martial arts using the ju-jitsu form. Topics include proper conditioning exercises, proper terminology, historical foundations, etiquette, and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

PED 239 Kickboxing 0 3 0 1

Prerequisites: None

Corequisites: None

College Transfer Course

This course introduces martial arts using the kickboxing form. Topics include proper conditioning exercises, proper terminology, historical foundations, etiquette, and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts. *This course has been approved for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

Philosophy

PHI 215 Philosophical Issues 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

College Transfer Course

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critically evaluate the philosophical components of an issue. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts—AA/AS.*

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.

PHI 240 Introduction to Ethics 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

College Transfer Course

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, students should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Humanities/Fine Arts—AA/AS.*

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.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

PHY 252 General Physics II **3 3 0 4**

Prerequisites: MAT 272 and "C" or better earned in PHY 251

Corequisites: None

College Transfer Course

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Natural Sciences—AS.*

Political Science

POL 120 American Government **3 0 0 3**

Prerequisites: None

Corequisites: None

College Transfer Course

This course is a study of the origins, development, structure, and functions of American government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. *This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Social/Behavioral Sciences-AA/AS.*

Competencies

1. Demonstrate an understanding of the essential concepts and theories in the course materials. Illustrate an understanding of the roles, duties, and structural characteristics of the executive, legislative, and judicial branches in the US government.
2. Analyze how American political institutions and individual behaviors interact to create political outcomes, with an awareness of the global context.
3. Define the function of political parties, interest groups, public opinion, and the media.
4. Interpret how American's political history, constitutional structure, and political culture contribute to the state of contemporary American democracy.

POL 130 State and Local Government **3 0 0 3**

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a pre-major and/or elective course requirement.*

POL 210 Comparative Government **3 0 0 3**

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Social/Behavioral Sciences.*

POL 220 International Relations **3 0 0 3**

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

REL 212 Introduction to New Testament 3 0 0 3

Prerequisites: Satisfactory placement or DRE 096

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

Substance Abuse

SAB 110 Substance Abuse Overview 3 0 0 3

Prerequisites: None

Corequisites: None

This course provides an overview of the core concepts in substance abuse and dependence. Topics include the history of drug use/abuse, effects on societal members, treatment of addiction, and preventive measures. Upon completion, students should be able to demonstrate knowledge of the etiology of drug abuse, addiction, prevention, and treatment.

SAB 135 Addictive Process 3 0 0 3

Prerequisites: None

Corequisites: None

This course explores the physical, emotional, psychological, and cultural aspects of the addictive process. Emphasis is placed on addictions to food, sex, alcohol, drugs, work, gambling, and relationships. Upon completion, students should be able to identify the effects, prevention strategies, and treatment methods associated with addictive disorders.

SAB 210 Substance Abuse Counseling 2 2 0 3

Prerequisites: None

Corequisites: None

This course provides theory and skills acquisition by utilizing intervention strategies designed to obtain therapeutic information, support recovery, and prevent relapse. Topics include counseling individuals and dysfunctional families, screening instruments, counseling techniques and approaches, recovery and relapse, and special populations. Upon completion, students should be able to discuss issues critical to recovery, identify intervention models, and initiate a procedure culminating in cognitive/behavioral change.

Information Systems Security

SEC 110 Security Concepts 2 2 0 3

Prerequisites: NET 110 OR CTI 120

Corequisites: None

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy.

Sociology

SOC 210 Introduction to Sociology 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a universal general education transfer component course (UGETC) in Social/Behavioral Sciences—AA/AS.*

If 3 numbers: *Class/Lab/Credit*; **if 4 numbers:** *Class/Lab/Clinic or Exp/Credit*

SOC 213 Sociology of the Family 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Social/Behavioral Sciences.*

SOC 220 Social Problems 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. *This course has been approved for transfer under the CAA and ICAA as a general education course in Social/Behavioral Sciences.*

SOC 225 Social Diversity 3 0 0 3

Prerequisites: None

Corequisites: None

College Transfer Course

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 and ICAA as a general education course in Social/Behavioral Sciences.*

Speech-Language Pathology

Please refer to Caldwell Community College and Technical Institute's catalog for SLP course descriptions.

Spanish

SPA 111 Elementary Spanish I 3 0 0 3

Prerequisites: Satisfactory placement or DRE 097 and DRE 098 or DRE 099

Corequisites: None

College Transfer Course

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 for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

SPA 112 Elementary Spanish II 3 0 0 3

Prerequisites: "C" or better earned in SPA 111

Corequisites: None

College Transfer Course

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

SPA 211 Intermediate Spanish I 3 0 0 3

Prerequisites: "C" or better earned in SPA 112

Corequisites: None

College Transfer Course

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved for transfer under the CAA and ICAA as a general education course in Humanities/Fine Arts.*

SPA 212 Intermediate Spanish II 3 0 0 3

Prerequisites: "C" or better earned in SPA 211

Corequisites: None

College Transfer Course

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.*

Social Work

SWK 110 Introduction to Social Work 3 0 0 3

Prerequisites: None

Corequisites: None

This course examines the historical development, values, orientation, and professional standards of social work and focuses on the terminology and broader systems of social welfare. Emphasis is placed on the various fields of practice including those agencies whose primary function is financial assistance, corrections, mental health, and protective services. Upon completion, students should be able to demonstrate an understanding of the knowledge, values, and skills of the social work professional.

SWK 113 Working with Diversity 3 0 0 3

Prerequisites: None

Corequisites: None

This course examines and promotes understanding, sensitivity, awareness, and knowledge of human diversity. Emphasis is placed on professional responsibilities, duties, and skills critical to multicultural human services practice. Upon completion, students should be able to integrate and expand knowledge, skills, and cultural awareness relevant to diverse populations.

Work-Based Learning

WBL 111 Work-Based Learning I 0 10 0 1

Prerequisites: None

Corequisites: None

This course provides a Work-Based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

WBL 112 Work-Based Learning I 0 20 0 2

Prerequisites: None

Corequisites: None

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

If 3 numbers: Class/Lab/Credit; if 4 numbers: Class/Lab/Clinic or Exp/Credit

WBL 115 Work-Based Learning Seminar I 1 0 0 1

Prerequisites: None

Corequisites: WBL 111 or WBL 112

This course provides procedures necessary for the Co-op student to receive maximum benefit from his/her work experience. Emphasis is placed on the student/employer/advisor relationship and the evaluation process of the experience used to show accountability. Upon completion the student will be totally aware of the Co-op benefit and process.

WBL 121 Work-Based Learning II 0 0 10 1

Prerequisites: WBL 111

Corequisites: None

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Web Technologies

WEB 110 Internet/Web Fundamentals 2 2 0 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 140 Web Development Tools 2 2 0 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 Dev I 2 2 0 3

Prerequisites: CSC 151

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 210 Web Design 2 2 0 3

Prerequisites: DME 110, DME 115 and WEB 140

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.

WEB 214 Social Media 2 2 0 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 251 Mobile Application Dev II 2 2 0 3

Prerequisites: WEB 151

Corequisites: None

This course covers advanced applications and custom programming to develop applications for mobile devices. Topics include device capabilities, OS specific Software Development Kits (SDK), scripting for functionality and designing interactivity. Upon completion, students should be able to demonstrate effective programming techniques to develop advanced mobile applications.

Welding

WLD 110 Cutting Processes 1 3 0 2

Prerequisites: 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 115 SMAW (Stick) Plate 2 9 0 5

Prerequisites: None

Corequisites: None

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

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 1 9 0 4

Prerequisites: WLD 115

Corequisites: None

This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions.

WLD 121 GMAW (MIG) FCAW/Plate 2 6 0 4

Prerequisites: None

Corequisites: None

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

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.

Administration, Faculty and Staff

A complete directory of administration, faculty and staff is available at mitchellcc.edu/faculty-and-staff. All employee e-mail addresses are in the following format: first initial of first name last name@mitchellcc.edu (ex. jsmith@mitchellcc.edu).

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The Mitchell Community College Board of Trustees meets on the fourth Wednesday evening of each month except in November and December when the Board meets on the first Wednesday after Thanksgiving to avoid conflict with the Thanksgiving and Christmas holidays. Also, generally, the Board does not meet in July. Meetings are routinely held at 7 p.m. in the Board Room of Kirkman House on the Statesville Campus.

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Holland, Vicki	Executive Administrative Assistant
A.A.S. Mitchell Community College	

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B.S. Western Carolina University	
Nicholson, Molly	Coordinator, Annual Giving and Alumni Relations
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A.A. Mitchell Community College; B.A. Lenoir-Rhyne College	
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A.A. Western Piedmont Community College; B.A. and M.A. Appalachian State University	
Thompkins, Aaron	Digital Media Specialist
Vanhorn, Donna	Advancement Services Specialist
B.A. Lenoir-Rhyne College	

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Johnson, Carol	Vice President for Workforce Development and Continuing Education
A.A. Mitchell College; B.A. University of North Carolina at Charlotte; M.A. Appalachian State University; Ed.S. Appalachian State University	
Clarke, Sherry	Instructional Coordinator, Basic Skills
B.S. and M.S. Appalachian State University	

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Flemming, Tina	Coordinator, Basic Law Enforcement Training B.S. Gardner Webb University
Hedrick, Hedy	HRD Coordinator B.A. American University; M.A. George Mason University
Larsen, James	Program Coordinator, Emergency Services B.S. Appalachian State University
Lazenby, Deborah	Business Services Coordinator A.A. Mitchell Community College, B.A. Catawba College
Pence, Pat	Program Coordinator, NC NA I
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Scipione, Betty	Director, Customized Training B.S. University of North Carolina at Charlotte
Siegfried, Pamela	Educational Navigator B.S. Wayne State University
Wallace, Suzanne	Director, Small Business Center B.S. Western Carolina University; M.S. High Point University

Division of Curriculum and Instruction Faculty and Staff

Office of the Vice President

Reese, Dr. Camille	Vice President for Instruction M.S.N., RN, CNE University of North Carolina at Greensboro; Ed.D. University of North Carolina at Greensboro
Money, Amy	Instructional Services Assistant A.A.S Mitchell Community College

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Houston, Mamie	Early College Liaison B.A. Livingstone College
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Patterson, Elizabeth “Betsy”	Coordinator of Assessment B.S. East Carolina University

Rhea, Amanda Director, Educational Partnerships
 B.S. and M.A. Appalachian State University

Rufty, Beverly Library Director
 A.A. Central Piedmont Community College; B.A. University of North Carolina at Charlotte;
 M.A. University of North Carolina at Greensboro

Snyder, Allison Early College Liaison
 B.A. Salem College

Wierckz, Courtney Librarian
 B.S. Appalachian State University; M.L.S. University of North Carolina at Greensboro

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 B.S. Western Carolina University; M.S. University of Cincinnati

Ausburn, Lisa English
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Bebler, Melanie Biology
 B.S. and M.S. Southeastern Louisiana

Blair, Emily English
 B.A. and M.A. University of Louisville

Briceno, Tony Electronics Engineering
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 B.S. Keller-DeVry University

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Chang, Aspen Biology
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***Coleman, Tia** Dean, College Transfer
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Davis, Marc Economics/Business
 B.S. College of Charleston; MBA and M.A. Walsh College

Day, Dr. Danielle Biology
 B.S. University of Charleston; B.S. and D.C. Logan College of Chiropractic

Dellinger, Sally Program Coordinator, Human Services Program
 B.A. and M.Ed. Winthrop University, North Carolina Licensed Clinical Addictions Specialist,
 Certified Clinical Supervisor

Dennis, Janay Biology
 B.S. Saint Augustine's College; M.S. Case Western Reserve University

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Index

A

Academic Calendar	7-9
Academic Forgiveness.....	37-38
Academic Honesty.....	41
Academic Policies.....	35-42
Academic Probation.....	38
Academic Re-Instatement	39
Academic Related	166
Academic Suspension	38
Accounting and Finance.....	75-77, 167-168
Accreditation.....	11
Administration, Faculty and Staff.....	270-277
Admissions	14-23
Associate Degree Emergency Medical Science.....	19-20
Associate Degree Nursing.....	20-21
Auditing/Non-Degree Students	15
Change of Program	17
College Board Adv. Placement Program.....	18
College Level Examination Program	17-18
Competitive Enrollment Programs	19
Continuing Education Students.....	16
Dietetic Technician	23
Emergency Medical Science.....	19-20
Health Information Technology.....	23
High School Students Career and College Promise.....	15-16
How to Apply	14
Medical Assisting	21-22
Medical Laboratory Technology (MLT).....	23
Military Service Experience.....	19
Orientation.....	17
Overview.....	14
Paramedic to Associate Degree Nursing.....	22-23
Placement Testing	16
Readmitted Students.....	14-15
Requirements for Degree Seeking Students.....	14
Requirements for Special Credit Students.....	14
Residency.....	16
Retest Policy.....	17
Special Credit Students	15
Speech Language Pathology Assistant.....	23
Transfer Students	15
Visiting Students.....	15
Advancement.....	12, 270
Air Conditioning, Heating and Refrigeration Technology.....	83-84, 171-173
Agribusiness Technology	78-80
Agribusiness Education	81-82
Agriculture	168-171
Allied Health.....	49
Alumni	12, 270
American Sign Language	178
Animal Science.....	173
Art	174-178
Associate Degree Emergency Medical Science.....	see <i>Emergency Medical Science</i>
Associate Degree Nursing.....	155-156, 252-253
Associate in Arts	54-57
Associate in Fine Arts in Visual Art	60-61
Associate in Engineering.....	58-59
Associate in Fine Arts in Music.....	62-63
Associate in General Education	64-67
Associate in General Education–Nursing.....	68-69
Associate in Science	70-73
Astronomy	168-169
Attendance Expectations	35
Attendance Exceptions	35
Attendance Policy	35

Auditing Classes	40
Automation and Robotics.....	178-179

B

Banking and Finance.....	179
Basic Law Enforcement Training.....	85-86
Basic Skills Programs	50
Belief Statements	10
Biology	179-181
Board of Trustees.....	270
Bookstore.....	44, 276
Business.....	181-183
Business Administration.....	87-89
Business and Industry Services.....	49

C

Campus Locations.....	3
Career Readiness Certificate (CRC).....	49
Change of Schedule	35
Chemistry.....	184
Classification	35
Communication	188-189
Computer Information Technology.....	193-194
Computer-Integrated Machining.....	90-91
Computer Technology Integration.....	193
Computer Science.....	192
Continuing Education.....	48-50
Continuing Education and Workforce Development.....	270-271
Corporate and Continuing Education	48-50
Attendance.....	48
Cancellation and Refund Policy	48
Credits (CEUs)	48
Fees and Supplies.....	48
Programs.....	48-50
Registration.....	48
Cosmetology.....	92, 189-191
Cosmetology Instructor.....	93
Counseling.....	43
Course Examinations	38
Course Load	35
Course Repeats.....	40
Course Requirements	39
Course Substitutions.....	40
Credit by Examination	39-40
Criminal Justice Technology.....	94-96, 185-188
Culinary Arts	97-98, 194-196
Curriculum Course Descriptions.....	166-269
Customized Training Programs.....	49

D

Database Management Technology.....	196
Dean's List.....	38
Design Drafting.....	196
Developmental Disabilities.....	197
Developmental Education Program.....	45
Developmental Reading/English.....	203-206
Developmental Mathematics	197-201
Dietetic Technician.....	99-100, 196
Digital Media Technology.....	100-102, 202-203
Directory.....	6
Disability Support Services.....	13, 43
Distance Learning	44-45

E	
Early Childhood Education.....	103-107, 206-210
Economics.....	197
EEO.....	2,13
Education (Early Childhood).....	103-107, 206-210
Electrical.....	213-215
Electrical Systems Technology.....	108-110
Electronics.....	215-216
Electronics Engineering Technology.....	111-114
Emergency Medical Science.....	115-116, 216-218
Emergency Medical Science Bridge Program ..	117
Emergency Preparedness.....	220
Endowment for Excellence (Advancement).....	12
Engineering.....	211-212
English.....	218-220
Esthetics Technology.....	118

F	
Faculty.....	272-275
Faculty Advisors.....	43
Financial Aid.....	26-31
12 Semester Lifetime Limit for Federal Pell Grant and State Aid.....	28
Deadlines.....	26
Distribution.....	26
Eligible Programs for Financial Aid.....	28
Eval of Satisfactory Academic Progress.....	29
Exclusions.....	28
Grades and SAP.....	29
How to Apply.....	26
No Show.....	27
Repeated Coursework.....	27
Return of Title IV Funds.....	30-31
Satisfactory Academic Prog Standard.....	28-29
Satisfactory Academic Progress Statuses..	29-30
Scholarships.....	26
Student Rights and Responsibilities.....	27
Transfer Students.....	28
Types of Financial Aid.....	26
Financial Services Division.....	275-276
Fire Protection Technology.....	119-121, 221-225
Fire Protection Technology (Continuing Ed).....	49
Foundation (Advancement).....	12
French.....	226

G	
General Information.....	10-13
General Occupational Technology.....	122-129
Geography.....	226
German.....	226
Gerontology.....	227
Grade Appeal.....	37
Grade Point Average.....	36
Grade Reports.....	37
Grading System.....	36
Graduation Honors.....	41
Graduation Marshals.....	41
Graduation Requirements.....	41
Graphic Design.....	227
Greetings.....	5

H	
Health.....	227-228
Health Information Technology.....	130, 228
Healthcare Management Tech.....	131-132, 229-230
History.....	228-229
History of Mitchell.....	10
Hotel & Restaurant Management.....	230

Human Resource Development (HRD).....	49
Human Services Technology.....	133-135, 230-231
Humanities.....	231-232
Hybrid Courses (Distance Learning).....	44-45
Hydraulics.....	232

I	
Industrial Science.....	233
Infant/Toddler Care.....	136
Information About the College.....	10
Information Systems.....	185
Information Systems Security.....	262
Information Technology.....	137-142
Networking.....	137-140
Software Development.....	137-140
Service/Support.....	137-140
Instruction.....	271-275

L	
Latin.....	233
Learning Resources Center/Huskins Library.....	44

M	
Machining.....	233-235
Manicuring/Nail Technology.....	143
Marketing and Retailing.....	242-243
Mathematics.....	235-239
Mechanical.....	240
Mechanical Engineering Technology.....	144-148
Mechatronics Engineering Technology.....	149-150
Medical Assisting.....	151-152, 241-242
Medical Laboratory Technology.....	153-154, 243
Memberships.....	11-12
MIND Center for Learning and Teaching.....	45
Mission.....	10
Music.....	243-250

N	
Networking Operating System.....	251-252
Networking Technology.....	250-251
North Carolina Information Highway.....	45
Nurse Aid.....	159, 250
Nursing.....	155-156, 252-253

O	
Occupational Extension.....	48
Office of the President.....	270
Office Systems Technology.....	254-255
Online Courses (Distance Learning).....	41

P	
Paramedic to Associate Degree Nursing... ..	157-158
Philosophy.....	258
Physical Education.....	255-258
Physics.....	259-260
Political Science.....	260-261
Prerequisite and Co-Requisite Waiver Policy.....	39
Programs of Study.....	52-164
Psychology.....	261
Purpose.....	10

R

Registration.....	35
Release of Student Educational Records.....	46-47
Religion.....	261-262

S

Satisfactory Academic Progress.....	28-30, 33, 38
Semester System.....	35
Services to Individuals with Disabilities.....	47
Small Business Center.....	49
Social Work.....	264
Sociology.....	262-263
Spanish.....	263-264
Special Populations.....	47
Speech-Language Pathology Assist.....	160-161, 263
Student Records and Privacy Rights.....	46
Student Responsibility.....	46
Student Rights and Responsibilities.....	46-47
Student Services.....	276-277
Substance Abuse.....	262
Support Services.....	43-45

T

Table of Contents.....	4
Training Programs (Business and Industry).....	49
Transcripts.....	40
Tuition and Fees.....	24-25
Books.....	24
Fulfillment of Financial Obligations.....	25
Payment.....	24-25
Refunds.....	25
Residency.....	25
Returned Checks.....	25
Specific Fees.....	24
Tuition.....	24

V

Veterans Affairs (Veterans).....	32-34
Attendance.....	33
Eligibility.....	32
Exclusions.....	33
How to Apply.....	32
Military Service Experience.....	32
Payment.....	32
Satisfactory Academic Progress.....	33
U S Army Reserve Officers Train Program.....	33
Veterans Educational Benefits.....	32
Veterans Services.....	34, 43

W

Web Technologies.....	265-266
Welding.....	162-164, 266-267
Withdrawal Policy.....	36
Work-Based Learning.....	264-265
Work-Based Learning Program.....	43-44
WorkKeys Employment Assessments and Job Profiling.....	49

