

PROGRAMS OF STUDY

South Piedmont Community College offers programs of study in a wide range of college transfer and career areas. These programs of study lead to a certificate, a diploma, or an associate degree.

Most courses are offered on a 16-week semester basis or 80 school days. Courses may also be offered as 12-week, 8-week, or 4-week sessions. Courses are offered during the day, evenings, weekends, and as distance learning. Not all programs courses are offered at all of these times or as distance learning options.

South Piedmont Community College ensures all graduates of its degree and diploma programs have achieved competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

College Transfer

College Transfer programs are designed to parallel the freshman and sophomore years of a four-year college or university. During the first two years of college, students take a program of general education coursework in the areas of English composition, humanities and fine arts, social and behavioral sciences, and natural sciences and mathematics. These general education courses will enable students to gain a well-rounded education before going on to a four-year college or university.

College Transfer students may work toward an Associate in Arts (A.A.), Associate in Fine Arts - Visual Arts (A.F.A.), Associate in Science (A.S.), or Associate in Engineering (A.E.) Degree. Students may attend classes full time or part time during the day, evening, or online.

During the first semester, students are assigned an advisor who will help select appropriate courses. All courses are approved by the State's Transfer Advisory Committee and will meet general education requirements in all schools in the University of North Carolina system. Students must meet the receiving university's health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

Community College graduates of the Associate in Arts, Associate in Fine Arts - Visual Arts, or Associate in Science degree programs who have earned 60 semester hours in approved transfer courses with a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale will receive at least 60 semester hours of academic credit upon admission to a UNC institution. Due to degree requirements in some majors, additional courses at the UNC institution may be required beyond the general education courses and pre-major courses taken at the community college. Courses offered through bilateral agreements may not transfer to all receiving institutions.

Community College graduates completing the Associate in Engineering Degree who have a GPA of at least 2.5 and a grade of C or better in all AE courses will have fulfilled the program entry requirements and will receive at least 60 semester hours of academic credit upon admission to a UNC institution.

Courses that have been approved by the North Carolina Community College System and the University of North Carolina system as Universal General Education Transfer Component (UGETC) courses are designated in bold in this catalog within the programs of study.

Associate in Arts Degree

(A10100)

The Associate in Arts degree is recommended for students who plan to transfer to four-year colleges or universities to pursue the Bachelor of Arts degree.

GENERAL EDUCATION CORE45 SHC

English Composition (6 SHC)

- Writing and Inquiry (**ENG 111**)
- Writing/Research in the Disciplines (**ENG 112**)

Communications (3 SHC)

- Public Speaking (**COM 231**)

Humanities/Fine Arts (6 SHC)

- Choose two courses from the following:
 - Art (**ART 111, ART 114, ART 115**)
 - Literature (**ENG 231, ENG 232, ENG 241, ENG 242**)
 - Music (**MUS 110, MUS 112**)
 - Philosophy (**PHI 215, PHI 240**)

Social/Behavioral Sciences (9 SHC)

- Choose three courses (minimum 2 subjects) from the following:
 - Economics (**ECO 251, ECO 252**)
 - History (**HIS 111, HIS 112, HIS 131, HIS 132**)
 - Political Science (**POL 120**)
 - Psychology (**PSY 150**)
 - Sociology (**SOC 210**)

Mathematics (4 SHC)

- Choose one course from the following:
 - Mathematics (**MAT 152, MAT 171, Direct placement into MAT-271 may be substituted**)

Natural Sciences (4 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A; AST 151/AST 151A**)
 - Biology (**BIO 110, BIO 111**)
 - Chemistry (**CHM 151**)
 - Geology (**GEL 111**)
 - Physics (**PHY 110/PHY 110A**)

Additional General Education (13)

- Critical Thinking (HUM 115)
- Foreign Language (Choose two courses from one of the following groups:)
 - American Sign Language (ASL 111, ASL 112, ASL 211, ASL 212)
 - Chinese (CHI 111, CHI 112)
 - French (FRE 111, FRE 112)
 - German (GER 111, GER 112)
 - Russian (RUS 111, RUS 112)
 - Spanish (SPA 111, SPA 112, SPA 211, SPA 212)
- Choose a minimum of 4 hours from the following:
 - **ART 111, ART 114, ART 115, ART 116, ART 117**
 - ASL 111, ASL 112, ASL 211, ASL 212
 - **AST 111/AST 111A; AST 151/AST 151A**
 - **BIO 110, BIO 111, BIO 112, BIO 130, BIO 140**
 - CHI 111, CHI 112
 - CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**
 - CIS 110, CIS 115
 - COM 110, **COM 120, COM 140**
 - **DRA 111, DRA 115, DRA 126**

- **ECO 251, ECO 252**
- ENG 113, ENG 114, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
- FRE 111, FRE 112
- **GEL 111**
- GEO 111
- GER 111, GER 112
- **HIS 111, HIS 112, HIS 131, HIS 132**
- HUM 120, HUM 130, HUM 160
- **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272, MAT 273**
- **MUS 110, MUS 112**
- **PHI 215, PHI 240**
- **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
- **POL 120**
- **PSY 150**, PSY 241, PSY 281
- REL 110, REL 211, REL 212, REL 221
- RUS 111, RUS 112
- **SOC 210, SOC 220**
- SPA 111, SPA 112, SPA 211, SPA 212

OTHER REQUIRED HOURS 16 SHC

Required Courses (1 SHC)

- ACA 122

Electives (15 SHC)

- Choose a minimum of 15 additional hours from the college transfer general education, elective and/or pre-major courses listed below (maximum two credits from PED prefix):
- ACC 120, ACC 121
- **ART 111, ART 114, ART 115**, ART 116, ART 117, ART 121, ART 122, ART 131, ART 171, ART 214, ART 240, ART 241, ART 264, ART 265, ART 271, ART 275, ART 276, ART 281, ART 282, ART 283, ART 284, ART 288
- ASL 111, ASL 112, ASL 211, ASL 212
- **AST 111/AST 111A; AST 151/AST 151A**
- **BIO 110, BIO 111, BIO 112**, BIO 130, BIO 140, BIO 163, BIO 168, BIO 169, BIO 250, BIO 271, BIO 275
- BUS 110, BUS 115, BUS 137
- CHI 111, CHI 112
- CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**, CHM 251, CHM 252
- CIS 110, CIS 115
- CJC 111, CJC 121, CJC 141
- COM 110, **COM 120**, COM 140
- CSC 151
- **DRA 111**, DRA 115, DRA 126
- **ECO 251, ECO 252**
- EGR 150
- ENG 113, ENG 114, ENG 125, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
- FRE 111, FRE 112
- **GEL 111**
- GEO 111
- GER 111, GER 112
- HEA 110
- **HIS 111, HIS 112, HIS 131, HIS 132**, HIS 145, HIS 221, HIS 236
- HUM 120, HUM 130, HUM 160
- JOU 110
- **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272, MAT 273, MAT 280, MAT 285**
- **MUS 110, MUS 112**
- PED 110, PED 111, PED 113, PED 121, PED 122, PED 142, PED 186, PED 219

- **PHI 215, PHI 240**
- **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
- **POL 120**
- **PSY 150**, PSY 241, PSY 281
- REL 110, REL 211, REL 212, REL 221
- RUS 111, RUS 112
- **SOC 210**, SOC 220
- SPA 111, SPA 112, SPA 211, SPA 212

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM61 SHC

Associate in Engineering Degree

(A10500)

Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. 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. 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.

The Associate in Engineering degree is recommended for students who plan to transfer to four-year colleges or universities to pursue the Bachelor of Science Engineering degree.

GENERAL EDUCATION CORE42 SHC

English Composition (6 SHC)

- Writing and Inquiry (**ENG 111**)
- Writing/Research in the Disciplines (**ENG 112**)

Communications (3 SHC)

- Public Speaking (**COM 231**)

Humanities/Fine Arts (3 SHC)

- Choose one course from the following:
 - Literature (**ENG 231, ENG 232, ENG 241, ENG 242**)
 - Philosophy (**PHI 215, PHI 240**)

Social/Behavioral Sciences (6 SHC)

- Prin of Microeconomics (**ECO 251**)
- Choose a minimum of 3 additional hours:
 - History (**HIS 111, HIS 112, HIS 131, HIS 132**)
 - Political Science (**POL 120**)
 - Psychology (**PSY 150**)
 - Sociology (**SOC 210**)

Mathematics (12 SHC)

- Calculus I (**MAT 271**)
- Calculus II (**MAT 272**)
- Calculus III (**MAT 273**)

Natural Sciences (12 SHC)

- General Chemistry (**CHM 151**)
- General Physics I (**PHY 251**)
- General Physics II (**PHY 252**)

OTHER REQUIRED HOURS 18 SHC

- College Transfer Success (ACA 122)
- Intro to Engineering (EGR-150)
- Technology and Society (HUM 110)
- Choose a minimum of 12 credits from the following:
 - General Biology (**BIO 111**)
 - General Chemistry II (**CHM 152**)
 - C++ Programming (CSC 134)
 - Engineering Graphics (DFT 170)
 - Prin of Macroeconomics (**ECO 252**)
 - Engineering Statics (EGR 220)
 - Linear Algebra (MAT 280)
 - Differential Equations (MAT 285)
 - Fit and Well for Life (PED 110)

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM60 SHC

Associate in Science Degree

(A10400)

The Associate in Science degree is recommended for students who plan to transfer to four-year colleges or universities to pursue the Bachelor of Science degree.

GENERAL EDUCATION CORE46 SHC

English Composition (6 SHC)

- Writing and Inquiry (**ENG 111**)
- Writing/Research in the Disciplines (**ENG 112**)

Communications (3 SHC)

- Public Speaking (**COM 231**)

Humanities/Fine Arts (3 SHC)

- Choose one course from the following:
 - Art (**ART 111, ART 114, ART 115**)
 - Literature (**ENG 231, ENG 232, ENG 241, ENG 242**)
 - Music (**MUS 110, MUS 112**)
 - Philosophy (**PHI 215, PHI 240**)

Social/Behavioral Sciences (6 SHC)

- Choose two courses (minimum two subjects) from the following:
 - Economics (**ECO 251, ECO 252**)
 - History (**HIS 111, HIS 112, HIS 131, HIS 132**)
 - Political Science (**POL 120**)
 - Psychology (**PSY 150**)
 - Sociology (**SOC 210**)

Mathematics (8 SHC)

- Choose two courses from the following:
 - Mathematics (**MAT 171, MAT 172, MAT 263, MAT 271, MAT 272**)

Natural Sciences (8 SHC)

- Choose one group from the following:
 - **BIO 111** and **BIO 112**
 - **CHM 151** and **CHM 152**
 - **PHY 151** and **PHY 152**
 - **PHY 251** and **PHY 252**

Additional General Education (12)

- Critical Thinking (HUM 115)
- Foreign Language (Choose two courses from one of the following groups:)
 - American Sign Language (ASL 111, ASL 112, ASL 211, ASL 212)
 - Chinese (CHI 111, CHI 112)
 - French (FRE 111, FRE 112)
 - German (GER 111, GER 112)
 - Russian (RUS 111, RUS 112)
 - Spanish (SPA 111, SPA 112, SPA 211, SPA 212)
- Choose a minimum of 3 additional hours:
 - **ART 111, ART 114, ART 115**
 - ASL 111, ASL 112, ASL 211, ASL 212
 - **AST 111/AST 111A; AST 151/AST 151A**
 - **BIO 110, BIO 111, BIO 112**, BIO 130, BIO 140
 - CHI 111, CHI 112
 - CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**
 - CIS 110, CIS 115
 - COM 110, **COM 120**, COM 140
 - **DRA 111**, DRA 115, DRA 126
 - **ECO 251, ECO 252**
 - ENG 113, ENG 114, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
 - FRE 111, FRE 112
 - **GEL 111**
 - GEO 111
 - GER 111, GER 112
 - **HIS 111, HIS 112, HIS 131, HIS 132**
 - HUM 120, HUM 130, HUM 160
 - **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272, MAT 273**
 - **MUS 110, MUS 112**
 - **PHI 215, PHI 240**
 - **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
 - **POL 120**
 - **PSY 150**, PSY 241, PSY 281
 - REL 110, REL 211, REL 212, REL 221
 - RUS 111, RUS 112
 - **SOC 210**, SOC 220
 - SPA 111, SPA 112, SPA 211, SPA 212

OTHER REQUIRED HOURS 15 SHC

Required Courses (1 SHC)

- ACA 122

Math Elective

- Choose a minimum of 3 hours from the following:
 - **MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272**, MAT 273, MAT 280, MAT 285

Sciences

- Choose a minimum of 8 hours from the following:
 - Astronomy (**AST 111/AST 111A**), (**AST 151/AST 151A**)
 - Biology (**BIO 110, BIO 111, BIO 112**, BIO 130, BIO 140, BIO 163, BIO 168, BIO 169, BIO 250, BIO 271, BIO 275)
 - Chemistry (CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**, CHM 251, CHM 252)
 - Geology (**GEL 111**)
 - Physics (**PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**)

Electives

- Choose a minimum of 3 additional hours from the college transfer general education, elective and/or pre-major courses listed below (maximum two credits from PED prefix):
 - ACC 120, ACC 121
 - **ART 111, ART 114, ART 115**, ART 116, ART 117, ART 121, ART 122, ART 131, ART 171, ART 214, ART 240, ART 241, ART 264, ART 265, ART 271, ART 275, ART 276, ART 281, ART 282, ART 283, ART 284, ART 288
 - ASL 111, ASL 112, ASL 211, ASL 212
 - **AST 111/AST 111A; AST 151/AST 151A**
 - **BIO 110, BIO 111, BIO 112**, BIO 130, BIO 140, BIO 163, BIO 168, BIO 169, BIO 250, BIO 271, BIO 275
 - BUS 110, BUS 115, BUS 137
 - CHI 111, CHI 112
 - CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**, CHM 251, CHM 252
 - CIS 110, CIS 115
 - CJC 111, CJC 121, CJC 141
 - COM 110, **COM 120**, COM 140
 - CSC 151
 - **DRA 111**, DRA 115, DRA 126
 - **ECO 251, ECO 252**
 - EGR 150
 - ENG 113, ENG 114, ENG 125, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
 - FRE 111, FRE 112
 - **GEL 111**
 - GEO 111
 - GER 111, GER 112
 - HEA 110
 - **HIS 111, HIS 112, HIS 131, HIS 132**, HIS 145, HIS 221, HIS 236
 - HUM 120, HUM 130, HUM 160
 - JOU 110
 - **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272**, MAT 273, MAT 280, MAT 285
 - **MUS 110, MUS 112**
 - PED 110, PED 111, PED 113, PED 121, PED 122, PED 142, PED 186, PED 219
 - **PHI 215, PHI 240**
 - **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
 - **POL 120**
 - **PSY 150**, PSY 241, PSY 281
 - REL 110, REL 211, REL 212, REL 221
 - RUS 111, RUS 112
 - **SOC 210**, SOC 220,
 - SPA 111, SPA 112, SPA 211, SPA 212

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM61 SHC

Associate in Fine Arts in Visual Arts Degree

(A10600)

A community college student who was enrolled in an Associate in Fine Arts (AFA) degree program and who satisfactorily completed the courses with a grade of "C" or better in all courses that are designated for college transfer will receive credit for those courses. AFA students completing Universal General Education Transfer Component courses will receive equivalent general education course credit for those courses at the receiving institution. For courses not designated as Universal General Education Transfer Component, the receiving institution will determine whether the course will count as general education or pre-major/elective credit. Students in the AFA programs who transfer must meet the general education requirements of the receiving institution.

The Associate in Fine Arts in Visual Arts degree is recommended for students who plan to transfer to four-year colleges or universities to pursue the Bachelor of Fine Arts degree.

GENERAL EDUCATION CORE26 SHC

English Composition (6 SHC)

- Writing and Inquiry (**ENG 111**)
- Writing/Research in the Disciplines (**ENG 112**)

Communications (3 SHC)

- Communication (**COM 231**)

Humanities/Fine Arts (3 SHC)

- Choose one course from the following:
 - Art (**ART 111**)
 - Literature (**ENG 231, ENG 232, ENG 241, ENG 242**)
 - Music (**MUS 110, MUS 112**)
 - Philosophy (**PHI 215, PHI 240**)

Social/Behavioral Sciences (6 SHC)

- Choose two courses (minimum 2 subjects) from the following:
 - Economics (**ECO 251, ECO 252**)
 - History (**HIS 111, HIS 112, HIS 131, HIS 132**)
 - Political Science (**POL 120**)
 - Psychology (**PSY 150**)
 - Sociology (**SOC 210**)

Mathematics (4 SHC)

- Choose one course from the following:
 - Mathematics (**MAT 152, MAT 171, MAT 271, MAT 272**)

Natural Sciences (4 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A; AST 151/AST 151A**)
 - Biology (**BIO 110, BIO 111**)
 - Chemistry (**CHM 151**)
 - Geology (**GEL 111**)
 - Physics (**PHY 110/PHY 110A**)

OTHER REQUIRED HOURS35 SHC

Required Courses (17 SHC)

- ACA 122
- **ART 114, ART 115, ART 121, ART 122, ART 131, ART 214**

Art Elective (9 SHC)

- Choose a minimum of 9 hours from the following:
 - ART 116, ART 117, ART 135, ART 171, ART 240, ART 241, ART 264, ART 265, ART 271, ART 275, ART 276, ART 281, ART 282, ART 283, ART 284, ART 288

Foreign Language (6 SHC)

- Choose two courses from one of the following groups:
 - American Sign Language (ASL 111, ASL 112, ASL 211, ASL 212)
 - Chinese (CHI 111, CHI 112)
 - French (FRE 111, FRE 112)
 - German (GER 111, GER 112)
 - Russian (RUS 111, RUS 112)
 - Spanish (SPA 111, SPA 112, SPA 211, SPA 212)

Electives (3 SHC)

- Choose a minimum of 3 additional hours from the college transfer general education, elective and/or pre-major courses listed below (maximum two credits from PED prefix):
 - ACC 120, ACC 121
 - **ART 111**, ART 116, ART 117, ART 135, ART 171, ART 240, ART 241, ART 264, ART 265, ART 271, ART 275, ART 276, ART 281, ART 282, ART 283, ART 284, ART 288
 - ASL 111, ASL 112, ASL 211, ASL 212
 - **AST 111/AST 111A; AST 151/AST 151A**
 - **BIO 110, BIO 111, BIO 112**, BIO 130, BIO 140, BIO 163, BIO 168, BIO 169, BIO 250, BIO 271, BIO 275
 - BUS 110, BUS 115, BUS 137
 - CHI 111, CHI 112
 - CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**, CHM 251, CHM 252
 - CIS 110, CIS 115
 - CJC 111, CJC 121, CJC 141
 - COM 110, **COM 120**, COM 140
 - CSC 151
 - **DRA 111**, DRA 115, DRA 126
 - **ECO 251, ECO 252**
 - EGR 150
 - ENG 113, ENG 114, ENG 125, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
 - FRE 111, FRE 112
 - **GEL 111**
 - GEO 111
 - GER 111, GER 112
 - HEA 110
 - **HIS 111, HIS 112, HIS 131, HIS 132**, HIS 145, HIS 221, HIS 236
 - HUM 120, HUM 130, HUM 160
 - JOU 110
 - **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272**, MAT 273, MAT 280, MAT 285
 - **MUS 110, MUS 112**
 - PED 110, PED 111, PED 113, PED 121, PED 122, PED 142, PED 186, PED 219
 - **PHI 215, PHI 240**
 - **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
 - **POL 120**
 - **PSY 150**, PSY 241, PSY 281
 - REL 110, REL 211, REL 212, REL 221
 - RUS 111, RUS 112
 - **SOC 210**, SOC 220
 - SPA 111, SPA 112, SPA 211, SPA 212

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM61 SHC

The Associate in General Education degree does not meet the standards of the Comprehensive Articulation Agreement with the UNC System, and therefore, is a terminal program and will not transfer to four-year institutions.

Associate in General Education Degree

(A10300)

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development.

Course work includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers will be provided.

Through these skills, students will have a sound base for lifelong learning. Graduates are prepared for advancements within their field of interest and become better qualified for a wide range of employment opportunities.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

OTHER REQUIRED HOURS50 SHC

Required Courses (4 SHC)

- CIS 110
- WBL 110

Electives (46 SHC) Choose at least 46 hours from the general education or professional courses listed below (maximum two credits from PED prefix):

- ACA 122
- ACC 120, ACC 121, ACC 129, ACC 130, ACC 140, ACC 150, ACC 180, ACC 215, ACC 220, ACC 221, ACC 225
- AGR 130, AGR 139, AGR 140, AGR 150, AGR 160, AGR 170, AGR 212, AGR 213, AGR 214, AGR 262

- AHR 110, AHR 111, AHR 112, AHR 113, AHR 114, AHR 115, AHR 125, AHR 133, AHR 140, AHR 180, AHR 211, AHR 212, AHR 213, AHR 240, AHR 250, AHR 255
- ANS 110, ANS 130, ANS 150, ANS 230
- **ART 111, ART 114, ART 115**, ART 116, ART 117, ART 121, ART 122, ART 131, ART 135, ART 171, ART 214, ART 240, ART 241, ART 264, ART 265, ART 271, ART 275, ART 276, ART 281, ART 282, ART 283, ART 284, ART 288
- ASL 111, ASL 112, ASL 211, ASL 212
- **AST 111/AST 111A, AST 151/AST 151A**
- ATR 112
- AUB 111, AUB 121, AUB 162
- AUT 114, AUT 116/AUT 116A, AUT 141, AUT 151, AUT 163, AUT 181, AUT 183, AUT 221, AUT 231, AUT 281
- **BIO 110, BIO 111, BIO 112**, BIO 130, BIO 140, BIO 163, BIO 168, BIO 169, BIO 250, BIO 271, BIO 275
- BPR 115
- BUS 110, BUS 115, BUS 121, BUS 135, BUS 137, BUS 139, BUS 152, BUS 153, BUS 220, BUS 225, BUS 234, BUS 240, BUS 280
- CCT 110, CCT 112, CCT 121, CCT 231, CCT 289
- CET 150, CET 250
- CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**, CHM 251, CHM 252
- CIS 115, CIS 164
- CJC 100, CJC 111, CJC 112, CJC 113, CJC 121, CJC 131, CJC 132, CJC 141, CJC 151, CJC 212, CJC 213, CJC 214, CJC 215, CJC 221, CJC 222, CJC 223, CJC 231, CJC 232
- COM 110, **COM 120**, COM 140, **COM 231**
- CSC 118, CSC 121, CSC 134, CSC 151, CSC 218, CSC 221
- CTI 110, CTI 120
- CTS 115, CTS 120, CTS 125, CTS 130, CTS 155, CTS 285, CTS 288, CTS 289
- CUL 110, CUL 112, CUL 135, CUL 140, CUL 160, CUL 170, CUL 240, CUL 245, CUL 260, CUL 270
- DBA 110, DBA 120
- DFT 151, DFT 152, DFT 154, DFT 170
- DME 110, DME 115, DME 120, DME 130, DME 140, DME 210, DME 215, DME 220, DME 270, DME 285
- **DRA 111**, DRA 115, DRA 126
- ECM 210
- **ECO 251, ECO 252**
- EDU 119, EDU 131, EDU 144, EDU 145, EDU 146, EDU 151, EDU 153, EDU 154, EDU 157, EDU 161, EDU 184, EDU 188, EDU 216, EDU 221, EDU 234, EDU 250, EDU 251, EDU 259, EDU 261, EDU 262, EDU 271, EDU 275, EDU 280, EDU 284
- EGR 150, EGR 220, EGR 250
- ELC 112, ELC 113, ELC 115, ELC 117, ELC 118, ELC 121, ELC 128, ELC 131, ELC 131A, ELC 134, ELC 139, ELC 213, ELC 215, ELC 220
- ELN 131, ELN 132, ELN 133, ELN 231, ELN 232
- **ENG 111, ENG 112**, ENG 113, ENG 114, ENG 125, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
- ETR 220, ETR 230, ETR 270
- FRE 111, FRE 112
- GEL 111
- GEO 111
- GER 111, GER 112
- GRA 151, GRA 161, GRA 250, GRA 255
- GRD 110, GRD 113, GRD 121, GRD 122, GRD 131, GRD 141, GRD 142, GRD 151, GRD 152, GRD 167, GRD 241, GRD 260, GRD 265, GRD 271, GRD 272, GRD 275, GRD 280, GRD 281, GRD 285
- GRO 120, GRO 250
- HEA 110
- **HIS 111, HIS 112, HIS 131, HIS 132**, HIS 145, HIS 221, HIS 236
- HIT 211
- HRM 220, HRM 225, HRM 245
- HSE 110, HSE 123, HSE 125, HSE 220, HSE 225, HSE 242
- HUM 110, HUM 115, HUM 120, HUM 130, HUM 160

- HYD 110, HYD 121, HYD 210
- ISC 112, ISC 132
- JOU 110
- LEX 110, LEX 120, LEX 130, LEX 140, LEX 141, LEX 150, LEX 210, LEX 211, LEX 220, LEX 240, LEX 250, LEX 280
- MAC 111, MAC 112, MAC 113, MAC 114, MAC 121, MAC 122, MAC 124, MAC 132, MAC 151, MAC 152, MAC 241, MAC 243, MAC 245
- MAT 121, **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272**, MAT 273, MAT 280, MAT 285
- MEC 130, MEC 142, MEC 145, MEC 161, MEC 180, MEC 260
- MED 110, MED 118, MED 121, MED 122, MED 130, MED 131
- MKT 120
- MNT 110, MNT 111
- **MUS 110, MUS 112**
- NET 225, NET 226
- NOS 110, NOS 120, NOS 130, NOS 230
- OST 131, OST 134, OST 136, OST 148, OST 149, OST 164, OST 184, OST 236, OST 243, OST 247, OST 248, OST 249, OST 250, OST 260, OST 281, OST 286
- PED 110, PED 111, PED 121, PED 142, PED 186, PED 219
- **PHI 215, PHI 240**
- **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
- **POL 120**
- **PSY 150**, PSY 241, PSY 281
- REL 110, REL 211, REL 212, REL 221
- RUS 111, RUS 112
- SAB 110, SAB 130, SAB 135
- SEC 110
- SGD 111, SGD 112
- **SOC 210**, SOC 220
- SPA 111, SPA 112, SPA 211, SPA 212
- SWK 113
- TRN 110, TRN 120, TRN 140, TRN 145, TRN 180
- WEB 140, WEB 210, WEB 214
- WLD 110, WLD 112, WLD 115, WLD 116, WLD 121, WLD 131, WLD 132, WLD 141, WLD 151, WLD 212, WLD 261

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM65 SHC

Associate in General Education - Nursing

(A1030N)

The Associate in General Education (AGE)-Nursing is designed for students who wish to begin their study toward the Associate in Nursing degree and a Baccalaureate degree in Nursing as based on Blocks 1 through 3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) programs and the North Carolina Community College Associate Degree Nursing Programs which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015. The AGE-Nursing shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses.

A student who completes an Associate in Applied Science (AAS) in Nursing with a GPA of at least 2.0 and a grade of C or better in the AGE-Nursing courses listed below and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is guaranteed admission to the program of his or her choice. Associate in Science degree is recommended for students who plan to transfer to four-year colleges or universities to pursue the Bachelor of Science degree.

GENERAL EDUCATION CORE61 SHC

English Composition (6 SHC)

- Writing and Inquiry (**ENG 111**) *and*
- Writing/Research in the Disciplines (**ENG 112**) *or*
- Prof Research & Reporting (ENG 114)

Humanities/Fine Arts (9 SHC)

- Choose two courses from the following:
 - Art (**ART 111, ART 114, ART 115**)
 - Humanities (HUM 115)
 - Literature (**ENG 231, ENG 232, ENG 241, ENG 242**)
 - Music (**MUS 110, MUS 112**)
 - Philosophy (**PHI 215, PHI 240**)
- Choose one course from the following:
 - Literature (**ENG 231, ENG 232**)

Social/Behavioral Sciences (15 SHC)

- General Psychology (**PSY 150**)
- Developmental Psych (PSY 241)
- Introduction to Psychology (**SOC 210**)
- Choose one course from each of the following groups:
 - History (**HIS 111, HIS 112, HIS 131, HIS 132**)
 - Sociology (SOC 220)

Natural Sciences (16 SHC)

- Microbiology (BIO 275)
- Anatomy and Physiology (**BIO 168, BIO 169**)
- Choose one course from the following:
 - Introduction to Chemistry (CHM 131/131A)
 - General Chemistry (**CHM 151**)

Mathematics (8 SHC)

- Statistical Methods I **MAT 152**
- Precalculus Algebra **MAT 171**

Additional General Education (7 SHC)

- College Transfer Success ACA 122
- Choose a minimum of 6 credits from the following:
 - CIS 110, **ECO 251, ECO 252, POL 120**)

TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM61 SHC

CAREER ORIENTED PROGRAMS

Accounting and Finance Degree

(A25800)

The Accounting curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the "language of business," accountants assemble and analyze, process, and communicate essential information about financial operations.

In addition to course work in accounting principles, theories, and practice, students will study business law, finance, management, and economics. 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 positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies. With work experience and additional education, an individual may advance in the accounting profession.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, COM 120, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 143, MAT 152, MAT 171**)

	Class	Lab	Clinic/Exp	Credit	
MAJOR HOURS - CORE COURSES (32 Credit Hours)					
ACC 120	Principles of Financial Accounting	3	2	0	4
ACC 121	Principles of Managerial Accounting	3	2	0	4
ACC 129	Individual Income Taxes	2	2	0	3
ACC 140	Payroll Accounting	1	2	0	2
ACC 220	Intermediate Accounting I	3	2	0	4
BUS 115	Business Law I	3	0	0	3
BUS 225	Business Finance	2	2	0	3
CIS 110	Introduction to Computers	2	2	0	3
CTS 130	Spreadsheet	2	2	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3

OTHER MAJOR HOURS (20 Credit Hours)

ACC 150	Accounting Software Applications	1	2	0	2
ACC 215	Ethics in Accounting	3	0	0	3
ACC 225	Cost Accounting	3	0	0	3
BUS 121	Business Math	2	2	0	3
BUS 137	Principles of Management	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

Electives (Choose at least 4 Credit Hours)

ACC 130	Business Income Taxes	2	2	0	3
ACC 180	Practices in Bookkeeping	3	0	0	3
ACC 221	Intermediate Accounting II	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
BUS 135	Principles of Supervision	3	0	0	3
BUS 139	Entrepreneurship I	3	0	0	3
BUS 152	Human Relations	3	0	0	3
BUS 153	Human Resource Management	3	0	0	3
BUS 280	REAL Small Business	4	0	0	4
CTS 125	Presentation Graphics	2	2	0	3
DBA 110	Database Concepts	2	3	0	3
ECO 251	Principles of Microeconomics	3	0	0	3
ETR 230	Entrepreneurship Marketing	3	0	0	3
MKT 120	Principles of Marketing	3	0	0	3
OST 131	Keyboarding	1	2	0	2
WBL 110	World of Work	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE 67

Accounting and Finance - Accounting Certificate

(C25800)

		Class	Lab	Clinic/Exp	Credit
ACC 120	Principles of Financial Accounting	3	2	0	4
ACC 129	Individual Income Taxes	2	2	0	3
ACC 140	Payroll Accounting	1	2	0	2
ACC 150	Accounting Software Applications	1	2	0	2
BUS 121	Business Math	2	2	0	3
CIS 110	Introduction to Computers	2	2	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 17

**Accounting and Finance-
Bookkeeping Certificate**

(C25800A)

		Class	Lab	Clinic/Exp	Credit
ACC 120	Principles of Financial Accounting	3	2	0	4
ACC 140	Payroll Accounting	1	2	0	2
ACC 150	Accounting Software Applications	1	2	0	2
ACC 180	Practices in Bookkeeping	3	0	0	3
BUS 121	Business Math	2	2	0	3
CIS 110	Introduction to Computers	2	2	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 17

Agribusiness Technology Certificate

(C15100)

The Agribusiness Systems curriculum are 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.

The Agribusiness Technology program prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specializations, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Agribusiness Technology- Agribusiness Certificate

(C15100B)

		Class	Lab	Clinic/Exp	Credit
ACC 120	Prin of Financial Accounting	3	2	0	4
AGR 212	Farm Business Management	3	0	0	3
AGR 213	Ag Law & Finance	3	0	0	3
AGR 214	Agricultural Marketing	3	0	0	3
ECO 251	Prin of Microeconomics	3	0	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 16

Agribusiness Technology- Agricultural Sciences Certificate

(C15100S)

		Class	Lab	Clinic/Exp	Credit
AGR 160	Plant Science	2	2	0	3
AGR 170	Soil Science	2	2	0	3
AGR 262	Weed ID & Control	2	3	0	3
ANS 110	Animal Science	3	0	0	3
BIO 111	General Biology I	3	3	0	4

TOTAL CREDIT HOURS IN CERTIFICATE 16

Air Conditioning, Heating, and Refrigeration Technology Degree (A35100)

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.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 143, MAT 152, MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (32 Credit Hours)					
AHR 110	Introduction to Refrigeration	2	6	0	5
AHR 111	HVACR Electricity	2	2	0	3
AHR 112	Heating Technology	2	4	0	4
AHR 113	Comfort Cooling	2	4	0	4
AHR 114	Heat Pump Technology	2	4	0	4
AHR 125	HVACR Electronics	2	2	0	3
AHR 211	Residential System Design	2	2	0	3
AHR 212	Advanced Comfort Systems	2	6	0	4
AHR 213	HVACR Building Code	1	2	0	2
OTHER MAJOR HOURS (21 Credit Hours)					
AHR 115	Refrigeration Systems	1	3	0	2
AHR 151	HVAC Duct Systems I	1	3	0	2
AHR 180	HVACR Customer Relations	1	0	0	1
AHR 240	Hydronic Heating	1	3	0	2
AHR 255	Indoor Air Quality	1	2	0	2
CIS 110	Introduction to Computers	2	2	0	3

Electives (Choose 9 Credit Hours)

AHR 133	HVAC Servicing	2	6	0	4
AHR 140	All Weather Systems	1	3	0	2
AHR 152	HVAC Duct Systems II	1	3	0	2
AHR 250	HVAC System Diagnostics	0	4	0	2
BPR 115	Elc/ Fluid Power Diagrams	1	2	0	2
BUS 280	REAL Small Business	4	0	0	4
ELC 112	DC/AC Electricity	3	6	0	5
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
WBL 121	Work-Based Learning II	0	0	10	1
WLD 112	Basic Welding Processes	1	3	0	2

TOTAL CREDIT HOURS IN DEGREE **68**

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

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)**Communications (3 SHC)**

- English Composition (**ENG 111**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 143, MAT 152, MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (23 Credit Hours)					
AHR 110	Introduction to Refrigeration	2	6	0	5
AHR 111	HVACR Electricity	2	2	0	3
AHR 112	Heating Technology	2	4	0	4
AHR 113	Comfort Cooling	2	4	0	4
AHR 114	Heat Pump Technology	2	4	0	4
AHR 125	HVACR Electronics	2	2	0	3
OTHER MAJOR HOURS (11 Credit Hours)					
AHR 151	HVAC Duct Systems I	1	3	0	2
CIS 110	Introduction to Computers	2	2	0	3
Electives (Choose 6 Credit Hours)					
AHR 133	HVAC Servicing	2	6	0	4
AHR 140	All Weather Systems	1	3	0	2
AHR 152	HVAC Duct Systems II	1	3	0	2
AHR 180	HVACR Customer Relations	1	0	0	1
AHR 211	Residential System Design	2	2	0	3
AHR 212	Advanced Comfort Systems	2	6	0	4
AHR 213	HVACR Building Code	1	2	0	2
AHR 240	Hydronic Heating	1	3	0	2
AHR 250	HVAC System Diagnostics	0	4	0	2
WBL 110	World of Work	1	0	0	1

WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
WBL 121	Work-Based Learning II	0	0	10	1
WLD 112	Basic Welding Processes	1	3	0	2
TOTAL CREDIT HOURS IN DIPLOMA					40

**Air Conditioning, Heating, and Refrigeration Technology
Heating Fundamentals Certificate
(C35100B)**

		Class	Lab	Clinic/Exp	Credit
AHR 110	Introduction to Refrigeration	2	6	0	5
AHR 111	HVACR Electricity	2	2	0	3
AHR 112	Heating Technology	2	4	0	4
AHR 113	Comfort Cooling	2	4	0	4
AHR 180	HVACR Customer Relations	1	0	0	1
TOTAL CREDIT HOURS IN CERTIFICATE					17

**Air Conditioning, Heating, and Refrigeration Technology
Heat Pump Fundamentals Certificate
(C35100C)**

		Class	Lab	Clinic/Exp	Credit
AHR 110	Introduction to Refrigeration	2	6	0	5
AHR 111	HVACR Electricity	2	2	0	3
AHR 114	Heat Pump Technology	2	4	0	4
AHR 125	HVACR Electronics	2	2	0	3
AHR 180	HVACR Customer Relations	1	0	0	1
ISC 112	Industrial Safety	2	0	0	2
TOTAL CREDIT HOURS IN CERTIFICATE					18

**Air Conditioning, Heating, and Refrigeration Technology
Refrigeration Certificate
(C35100D)**

		Class	Lab	Clinic/Exp	Credit
AHR 110	Introduction to Refrigeration	2	6	0	5
AHR 111	HVACR Electricity	2	2	0	3
AHR 113	Comfort Cooling	2	4	0	4
AHR 114	Heat Pump Technology	2	4	0	4
AHR 115	Refrigeration Systems	1	3	0	2
TOTAL CREDIT HOURS IN CERTIFICATE					18

Associate Degree Nursing Degree (A45110)

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 health care, 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.

The SPCC Associate Degree Nursing Program is approved by the North Carolina Board of Nursing. Contact the Board at P. O. Box 2129, Raleigh, NC 27602-2129, or 4516 Lake Boone Trail, Raleigh, NC 27607, or call 919-782-3211 for questions about the approval.

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- English Composition (Choose one course: **ENG 112**, **ENG 114**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**, **PHI 240**)

Social/Behavioral Sciences (3 SHC)

- Psychology (**PSY 150**)

Natural Sciences/Mathematics (4 SHC)

- Biology (BIO 168)

MAJOR HOURS - CORE COURSES (43 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
NUR 111	Introduction to Health Concepts	4	6	6	8
NUR 112	Health Illness Concepts	3	0	6	5
NUR 113	Family Health Concepts	3	0	6	5
NUR 114	Holistic Health Concepts	3	0	6	5
NUR 211	Health Care Concepts	3	0	6	5
NUR 212	Health System Concepts	3	0	6	5
NUR 213	Complex Health Concepts	4	3	15	10

OTHER MAJOR HOURS (14 Credit Hours)

BIO 169	Anatomy & Physiology II	3	3	0	4
BIO 275	Microbiology	3	3	0	4
CIS 110	Introduction to Computers	2	2	0	3
PSY 241	Developmental Psychology	3	0	0	3

TOTAL CREDIT HOURS IN DEGREE 73

Automotive Systems Technology Degree (A60160)

Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/trans axles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

The Automotive Systems Technology curriculum prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. The program includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (MAT 143, MAT 171)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (20 Credit Hours)					
TRN 110	Intro to Transport Tech	1	2	0	2
TRN 140	Transp Climate Control	1	2	0	2
TRN 180	Basic Welding for Trans	1	4	0	3
AUT 141	Suspension and Steering Sys	2	3	0	3
AUT 151	Brake Systems	2	3	0	3
AUT 181	Engine Performance 1	2	3	0	3
AUT 183	Engine Performance 2	2	6	0	4
OTHER MAJOR HOURS (31 Credit Hours)					
AUT 114	Safety and Emissions	1	2	0	2
AUT 116	Engine Repair	2	3	0	3
AUT 116A	Engine Repair Lab	0	3	0	1
AUT 163	Adv Auto Electricity	2	3	0	3

AUT 221	Auto Transm/Transaxles	2	3	0	3
AUT 231	Man Trans/Axles/Drtrains	2	3	0	3
AUT 281	Adv Engine Performance	2	2	0	3
CIS 110	Introduction to Computers	2	2	0	3
TRN 120	Basic Transp Electricity	4	3	0	5
TRN 145	Adv Transp Electronics	2	3	0	3

Electives (Choose 2 Credit Hours)

AUB 111	Painting and Refinishing I	2	6	0	4
AUB 121	Non-Structural Damage I	1	4	0	3
AUB 162	Autobody Estimating	1	2	0	2
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE 66

Basic Law Enforcement Training Certificate

(C55120)

Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers with state, county, or municipal governments, or with private enterprise.

This program utilizes State commission-mandated topics and methods of instruction. General subjects include, but are not limited to, criminal, juvenile, civil, traffic, and alcohol beverage laws; investigative, patrol, custody, and court procedures; emergency responses; and ethics and community relations.

Students must successfully complete and pass all units of study mandated by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission to receive a certificate.

		Class	Lab	Clinic/Exp	Credit
CJC 100	Basic Law Enforcement Training	10	30	0	20

TOTAL CREDIT HOURS IN CERTIFICATE 20

BLET and Criminal Justice Technology

Students successfully completing a BLET training course accredited by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Standards Commission will receive credit for CJC 131, CJC 132, CJC 221, and CJC 231. Students must successfully complete the training course AND the state certification examination to receive credit for these courses. Students must have completed BLET training since 1985. SPCC only ensures acceptance of these transfer credits to its Associate in Applied Science - Criminal Justice Technology degree, diploma, and certificate programs. These transfer credits may or may not be accepted by a four-year institution to which a student intends to transfer.

Business Administration Degree

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.

Two tracks are available under the Business Administration degree to allow students to select the specialty of their choice: **Business** (A25120B) and **Entrepreneurship** (A25120E).

Business Administration Degree - Business Pathway (A25120B)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 143, MAT 152, MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (34 Credit Hours)					
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
BUS 115	Business Law I	3	0	0	3
BUS 137	Principles of Management	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3
MKT 120	Principles of Marketing	3	0	0	3
BUS 121	Business Math	2	2	0	3
BUS 139	Entrepreneurship I	3	0	0	3
BUS 153	Human Resource Management	3	0	0	3
BUS 240	Business Ethics	3	0	0	3

OTHER MAJOR HOURS (16 Credit Hours)

ACC 121	Principles of Managerial Accounting	3	2	0	4
ECM 210	Introduction to Electronic Commerce	2	2	0	3
ECO 251	Principles of Microeconomics	3	0	0	3

Electives (Choose at least 6 Credit Hours)

ACC 130	Business Income Taxes	2	2	0	3
ACC 140	Payroll Accounting	1	2	0	2
ACC 150	Accounting Software Applications	1	2	0	2
BUS 135	Principles of Supervision	3	0	0	3
BUS 152	Human Relations	3	0	0	3
BUS 220	Purchasing	3	0	0	3
BUS 234	Training and Development	3	0	0	3
BUS 280	REAL Small Business	4	0	0	4
CTS 130	Spreadsheet	2	2	0	3
DBA 110	Database Concepts	2	2	0	3
ETR 220	Innovation and Creativity	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3
ETR 270	Entrepreneurship Issues	3	0	0	3
OST 131	Keyboarding	1	2	0	2
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE65

**Business Administration Degree -
Entrepreneurship Pathway
(A25120E)**

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)**Communications (6 SHC)**

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**, **PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251**, **ECO 252**)
- Geography (GEO 111)
- History (**HIS 111**, **HIS 112**, **HIS 131**, **HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210**, SOC 220)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 143**, **MAT 152**, **MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (34 Credit Hours)					
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
BUS 115	Business Law I	3	0	0	3
BUS 137	Principles of Management	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3
MKT 120	Principles of Marketing	3	0	0	3
BUS 121	Business Math	2	2	0	3
BUS 139	Entrepreneurship I	3	0	0	3
BUS 153	Human Resource Management	3	0	0	3
BUS 240	Business Ethics	3	0	0	3
OTHER MAJOR HOURS (16 Credit Hours)					
BUS 280	REAL Small Business	4	0	0	4
ETR 220	Innovation and Creativity	3	0	0	3
ETR 270	Entrepreneurship Issues	3	0	0	3
Electives (Choose at least 6 Credit Hours)					
ACC 121	Principles of Managerial Accounting	3	2	0	4
ACC 130	Business Income Taxes	2	2	0	3
ACC 140	Payroll Accounting	1	2	0	2
ACC 150	Accounting Software Applications	1	2	0	2
BUS 135	Principles of Supervision	3	0	0	3
BUS 152	Human Relations	3	0	0	3
BUS 220	Purchasing	3	0	0	3
BUS 234	Training and Development	3	0	0	3
CTS 130	Spreadsheet	2	2	0	3
DBA 110	Database Concepts	2	2	0	3
ECO 251	Principles of Microeconomics	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3
OST 131	Keyboarding	1	2	0	2
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					65

Business Administration Diploma

(D25120)

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (28 Credit Hours)					
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
BUS 115	Business Law I	3	0	0	3
BUS 137	Principles of Management	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3

MKT 120	Principles of Marketing	3	0	0	3
BUS 121	Business Math	2	2	0	3
BUS 139	Entrepreneurship I	3	0	0	3

OTHER MAJOR HOURS (3 Credit Hours)**Electives** (Choose at least 3 Credit Hours)

ACC 130	Business Income Taxes	2	2	0	3
ACC 140	Payroll Accounting	1	2	0	2
ACC 150	Accounting Software Applications	1	2	0	2
BUS 135	Principles of Supervision	3	0	0	3
BUS 220	Purchasing	3	0	0	3
BUS 234	Training and Development	3	0	0	3
BUS 280	REAL Small Business	4	0	0	4
CTS 130	Spreadsheet	2	2	0	3
DBA 110	Database Concepts	2	2	0	3
ETR 220	Innovation and Creativity	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3
ETR 270	Entrepreneurship Issues	3	0	0	3
OST 131	Keyboarding	1	2	0	2
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DIPLOMA 37

Business Administration Certificate

(C25120)

		Class	Lab	Clinic/Exp	Credit
BUS 115	Business Law I	3	0	0	3
BUS 121	Business Math	2	2	0	3
BUS 137	Principles of Management	3	0	0	3
BUS 153	Human Resource Management	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
MKT 120	Principles of Marketing	3	0	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 18

Business Administration - Small Business Management Certificate

(C25120A)

		Class	Lab	Clinic/Exp	Credit
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 110	Introduction to Business	3	0	0	3
BUS 135	Principles of Supervision	3	0	0	3
BUS 234	Training and Development	3	0	0	3
BUS 280	REAL Small Business	4	0	0	4

TOTAL CREDIT HOURS IN CERTIFICATE 17

Business Administration - Entrepreneurship Certificate (C25120E)

		Class	Lab	Clinic/Exp	Credit
BUS 139	Entrepreneurship I	3	0	0	3
BUS 280	REAL Small Business	4	0	0	4
ETR 220	Innovation and Creativity	3	0	0	3
ETR 230	Entrepreneur Marketing	3	0	0	3
ETR 270	Entrepreneurship Issues	3	0	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					16

Criminal Justice Technology Degree (A55180)

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.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 143, MAT 152, MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (22 Credit Hours)					
CJC 111	Introduction to Criminal Justice	3	0	0	3
CJC 112	Criminology	3	0	0	3
CJC 113	Juvenile Justice	3	0	0	3

CJC 131	Criminal Law	3	0	0	3
CJC 212	Ethics & Community Relations	3	0	0	3
CJC 221	Investigative Principles	3	2	0	4
CJC 231	Constitutional Law	3	0	0	3
OTHER MAJOR HOURS (27 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
CJC 121	Law Enforcement Operations	3	0	0	3
CJC 132	Court Procedure & Evidence	3	0	0	3
CJC 141	Corrections	3	0	0	3
CJC 214	Victimology	3	0	0	3
CJC 215	Organization & Administration	3	0	0	3
CJC 223	Organized Crime	3	0	0	3
Electives (Choose at least 6 Credit Hours)					
BIO 111	General Biology I	3	3	0	4
CET 150	Computer Forensics I	2	3	0	3
CET 250	Computer Forensics II	2	3	0	3
CJC 151	Introduction to Loss Prevention	3	0	0	3
CJC 213	Substance Abuse	3	0	0	3
CJC 222	Criminalistics	3	0	0	3
CJC 232	Civil Liability	3	0	0	3
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					64

Criminal Justice Technology Diploma

(D55180)

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (15 Credit Hours)					
CJC 111	Introduction to Criminal Justice	3	0	0	3
CJC 112	Criminology	3	0	0	3
CJC 113	Juvenile Justice	3	0	0	3
CJC 212	Ethics & Community Relations	3	0	0	3
CJC 231	Constitutional Law	3	0	0	3
OTHER MAJOR HOURS (15 Credit Hours)					
CJC 121	Law Enforcement Operations	3	0	0	3
CJC 141	Corrections	3	0	0	3
CJC 215	Organization & Administration	3	0	0	3
CJC 214	Victimology	3	0	0	3
CJC 223	Organized Crime	3	0	0	3
TOTAL CREDIT HOURS IN DIPLOMA					36

Criminal Justice Technology Certificate
(C55180)

		Class	Lab	Clinic/Exp	Credit
CJC 111	Introduction to Criminal Justice	3	0	0	3
CJC 112	Criminology	3	0	0	3
CJC 215	Organization & Administration	3	0	0	3
CJC 221	Investigative Principles	3	2	0	4
CJC 223	Organized Crime	3	0	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					16

Criminal Justice Technology - Forensics Certificate
(C55180B)

		Class	Lab	Clinic/Exp	Credit
CET 150	Computer Forensics I	2	3	0	3
CET 250	Computer Forensics II	2	3	0	3
CJC 132	Court Procedure & Evidence	3	0	0	3
CJC 221	Investigative Principles	3	2	0	4
CJC 222	Criminalistics	3	0	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					16

Criminal Justice Technology and BLET

Students successfully completing a BLET training course accredited by the NC Criminal Justice Education and Training Standards Commission and the NC Sheriffs' Education and Training Standards Commission will receive credit for CJC 131, CJC 132, CJC 221, and CJC 231. Students must successfully complete the training course AND the state certification examination to receive credit for these courses. Students must have completed BLET training since 1985. SPCC only ensures acceptance of these transfer credits to its Associate in Applied Science - Criminal Justice Technology degree, diploma, and certificate programs. These transfer credits may or may not be accepted by a four-year institution to which a student intends to transfer.

Culinary Arts Degree

(A55150)

The Culinary Arts 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.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (31 Credit Hours)					
CUL 110	Sanitation & Safety	2	0	0	2
CUL 112	Nutrition for Foodservice	3	0	0	3
CUL 135	Food & Beverage Service	2	0	0	2
CUL 140	Culinary Skills I	2	6	0	5
CUL 160	Baking I	1	4	0	3
CUL 170	Garde Manger I	1	4	0	3
CUL 240	Culinary Skills II	1	8	0	5
HRM 220	Cost Control - Food & Bev	3	0	0	3
HRM 245	Human Resource Mgmt - Hosp	3	0	0	3

Work-Based Learning (Choose 1 group - 2 SHC)

WBL 111	Work-Based Learning I <i>and</i>	0	0	10	1
WBL 121	Work-Based Learning II <i>or</i>	0	0	10	1
WBL 112	Work-Based Learning I	0	0	20	2

OTHER MAJOR HOURS (21 Credit Hours)

CIS 110	Introduction to Computers	2	2	0	3
CUL 245	Contemporary Cuisines	1	8	0	5
CUL 260	Baking II	1	4	0	3
CUL 270	Garde Manger II	1	4	0	3

Electives (Choose at least 7 Credit Hours)

AGR 139	Intro to Sustainable Ag	3	0	0	3
AGR 214	Agricultural Marketing	3	0	0	3
ART 122	Three-Dimensional Design	0	6	0	3
ART 264	Digital Photography I	0	6	0	3
BUS 121	Business Math	2	2	0	3
BUS 280	REAL Small Business	4	0	0	4
HRM 225	Beverage Management	3	0	0	3
SPA 111	Elementary Spanish I	3	0	0	3
WBL 110	World of Work	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE 67

Culinary Arts Certificate
(C55150A)

		Class	Lab	Clinic/Exp	Credit
CUL 110	Sanitation & Safety	2	0	0	2
CUL 140	Culinary Skills I	2	6	0	5
CUL 160	Baking I	1	4	0	3
CUL 170	Garde Manger I	1	4	0	3
CUL 240	Culinary Skills II	1	8	0	5

TOTAL CREDIT HOURS IN CERTIFICATE 18

Cyber Crime Technology Degree (A55210)

The Cyber Crime Technology curriculum will prepare students to enter the field of computer crime investigations and private security. Students completing this curriculum will be capable of investigating computer crimes, properly seize and recover computer evidence and aid in the prosecution of cyber criminals.

Course work in this curriculum will include a division of work in the disciplines of criminal justice and computer information systems. Additionally, students will be required to take specific cyber crime classes.

Graduates should qualify to become computer crime investigators for local or state criminal justice agencies. Also these graduates should be competent to serve as computer security specialists or consultants with private business.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**, **PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251**, **ECO 252**)
- Geography (GEO 111)
- History (**HIS 111**, **HIS 112**, **HIS 131**, **HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210**, SOC 220)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110**, BIO 140)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143**, **MAT 152**, **MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

MAJOR HOURS - CORE COURSES (16 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
CCT 110	Introduction to Cyber Crime	3	0	0	3
CCT 112	Ethics & High Technology	3	0	0	3
CCT 121	Computer Crime Investigation	3	2	0	4
CCT 231	Technology Crimes & Law	3	0	0	3
CCT 289	Capstone Project	1	6	0	3

OTHER MAJOR HOURS (34 Credit Hours)

CET 150	Computer Forensics I	2	3	0	3
CET 250	Computer Forensics II	2	3	0	3
CIS 110	Introduction to Computers	2	2	0	3
CIS 115	Intro to Prog & Logic	2	3	0	3
CJC 132	Court Procedure & Evidence	3	0	0	3
CJC 221	Investigative Principles	3	2	0	4

CTI 120	Network and Sec Foundation	2	2	0	3
NOS 110	Operating System Concepts	2	3	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
SEC 110	Security Concepts	2	2	0	3
Electives (Choose at least 3 Credit Hours)					
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 115	Business Law I	3	0	0	3
CSC 151	JAVA Programming	2	3	0	3
CTS 120	Hardware/Software Support	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
NOS 130	Windows Single User	2	2	0	3
OST 148	Med Coding Billing & Ins	3	0	0	3
OST 149	Medical Legal Issues	3	0	0	3
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					65

Digital Media Technology Degree (A25210)

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.

Two tracks are available under the Digital Media Technology degree to allow students to select the specialty of their choice: **Digital Media** (A25210A) and **Digital Print Production** (A25210B).

Digital Media Technology Degree - Digital Media Pathway (A25120A)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)

- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (15 Credit Hours)					
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
DME 110	Intro to Digital Media	2	2	0	3
DME 115	Graphic Design Tools	2	2	0	3
DME 120	Intro to Multimedia Appl	2	2	0	3
DME 130	Digital Animation I	2	2	0	3
OTHER MAJOR HOURS (36 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
CIS 164	DTP Layout & Design	2	2	0	3
DME 140	Intro to Audio/Video Media	2	2	0	3
DME 210	User Interface Design	2	2	0	3
DME 215	Adv Graphic Design Tools	2	2	0	3
DME 220	Interactive Multimedia Prog	2	2	0	3
DME 285	Systems Project	2	2	0	3
SGD 111	Introduction to SGD	2	3	0	3
WEB 140	Web Development Tools	2	2	0	3
WEB 210	Web Design	2	2	0	3
WEB 214	Social Media	2	2	0	3
Electives (Choose at least 3 Credit Hours)					
DME 270	Prof Pract Digital Media	2	2	0	3
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					66

Digital Media Technology Degree - Digital Print Production Pathway

(A25120B)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**, **PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251**, **ECO 252**)
- Geography (GEO 111)
- History (**HIS 111**, **HIS 112**, **HIS 131**, **HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210**, SOC 220)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110**, BIO 140)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143**, **MAT 152**, **MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (15 Credit Hours)					
DME 110	Intro to Digital Media	2	2	0	3
DME 115	Graphic Design Tools	2	2	0	3
DME 120	Intro to Multimedia Appl	2	2	0	3
DME 130	Digital Animation I	2	2	0	3
WEB 210	Web Design	2	2	0	3
OTHER MAJOR HOURS (36 Credit Hours)					
ART 171	Digital Design I	0	6	0	3
ART 264	Digital Photography I	0	6	0	3
ART 271	Digital Design II	0	6	0	3
CIS 110	Introduction to Computers	2	2	0	3
CIS 164	DTP Layout & Design	2	2	0	3
CTS 125	Presentation Graphics	2	2	0	3
DME 210	User Interface Design	2	2	0	3
GRA 151	Computer Graphics I	1	3	0	2
GRA 161	Computer Graphics Apps I	0	3	0	1
GRA 250	E-Document Publishing	1	3	0	2
GRA 255	Image Manipulation I	1	3	0	2
GRD 260	Digital Processes/Theory	2	0	0	2
GRD 265	Digital Print Production	1	4	0	3

Electives (Choose at least 3 Credit Hours)

DME 270	Prof Pract Digital Media	2	2	0	3
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE **66**

Digital Media Technology Certificate

(C25210A)

		Class	Lab	Clinic/Exp	Credit
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
DME 110	Intro to Digital Media	2	2	0	3
DME 115	Graphic Design Tools	2	2	0	3
DME 120	Intro to Multimedia Appl	2	2	0	3
DME 140	Intro to Audio/Video Media	2	2	0	3
WEB 210	Web Design	2	2	0	3

TOTAL CREDIT HOURS IN CERTIFICATE **18**

Digital Print Production Certificate

(C25210B)

		Class	Lab	Clinic/Exp	Credit
DME 110	Intro to Digital Media	2	2	0	3
DME 115	Graphic Design Tools	2	2	0	3
DME 120	Intro to Multimedia Appl	2	2	0	3
GRA 151	Computer Graphics I	1	3	0	2
GRD 265	Digital Print Production	1	4	0	3
WEB 210	Web Design	2	2	0	3

TOTAL CREDIT HOURS IN CERTIFICATE **17**

Early Childhood Education

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.

Two tracks are available under the Early Childhood Education degree to allow students to select the specialty of their choice: **Practitioner** (A55220A) and **Transfer** (A55220B).

The SPCC Early Childhood Program is accredited by the National Association for the Education of Young Children (NAEYC), www.naeyc.org.

Early Childhood Education Degree - Practitioner Pathway (A55220A)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (**COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 240**)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Psychology (**PSY 150**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 111, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (35 Credit Hours)					
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 131	Children, Family, and Community	3	0	0	3
EDU 144	Child Development I	3	0	0	3
EDU 145	Child Development II	3	0	0	3
EDU 146	Child Guidance	3	0	0	3
EDU 151	Creative Activities	3	0	0	3
EDU 153	Health, Safety, and Nutrition	3	0	0	3
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 234	Infants, Toddlers, and Twos	3	0	0	3
EDU 280	Language & Literacy Experiences	3	0	0	3
EDU 284	Early Child Capstone Practicum	1	9	0	4
OTHER MAJOR HOURS (18 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
EDU 184	Early Childhood Introductory Practicum	1	3	0	2
EDU 188	Issues in Early Childhood Education	2	0	0	2
EDU 259	Curriculum Planning	3	0	0	3
EDU 271	Educational Technology	2	2	0	3
Electives (Choose one course)					
EDU 154	Social/Emotional/Behavioral Development	3	0	0	3
EDU 157	Active Play	2	2	0	3
EDU 161	Introduction to Exceptional Children	3	0	0	3
EDU 216	Foundations of Education	4	0	0	4
EDU 250	PRAXIS I Preparation	1	0	0	1
EDU 251	Exploration Activities	3	0	0	3
EDU 261	Early Childhood Administration I	3	0	0	3
EDU 262	Early Childhood Administration II	3	0	0	3
SPA 111	Elementary Spanish I	3	0	0	3

TOTAL CREDIT HOURS IN DEGREE 68

Early Childhood Education Degree - Transfer Pathway

(A55220B)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (**COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 240**)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Psychology (**PSY 150**)

Natural Sciences/Mathematics (3 SHC)

- Mathematics (**MAT 143**)

ADDITIONAL GENERAL EDUCATION TRANSFER REQUIREMENTS (14)

English (3 SHC)

- English (**ENG 112, ENG 114**)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Sociology (**SOC 210**)

Biological Sciences (4 SHC)

- Biology (**BIO 110, BIO 111**)

Natural Science (4 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A, AST 151/AST 151A**)
 - Principles of Biology (**BIO 110, BIO 111**)
 - Chemistry (**CHM 151**)
 - Geology (**GEL 111**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (32 Credit Hours)					
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 131	Children, Family, and Community	3	0	0	3
EDU 144	Child Development I	3	0	0	3
EDU 145	Child Development II	3	0	0	3
EDU 146	Child Guidance	3	0	0	3
EDU 151	Creative Activities	3	0	0	3
EDU 153	Health, Safety, and Nutrition	3	0	0	3
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 234	Infants, Toddlers, and Twos	3	0	0	3
EDU 284	Early Child Capstone Practicum	1	9	0	4

TRANSFER SPECIALTY (6 Credit Hours) Choose one specialty group from the following:

Birth to Kindergarten (B-K) Licensure Transfer (6 SHC)

EDU 216	Foundations of Education	3	0	0	3
EDU 250	Teacher Licensure Preparation	3	0	0	3

Early Education Non-Licensure Transfer (6 SHC)

EDU 261	Early Childhood Admin I	3	0	0	3
EDU 262	Early Childhood Admin II	3	0	0	3

TOTAL CREDIT HOURS IN DEGREE 67

Early Childhood Education Diploma

(D55220)

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (**COM 231**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (32 Credit Hours)					
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 131	Children, Family, & Community	3	0	0	3
EDU 144	Child Development I	3	0	0	3
EDU 145	Child Development II	3	0	0	3
EDU 146	Child Guidance	3	0	0	3
EDU 151	Creative Activities	3	0	0	3
EDU 153	Health, Safety, & Nutrition	3	0	0	3
EDU 221	Children with Exceptionalities	3	0	0	3
EDU 280	Language & Literacy Experiences	3	0	0	3
EDU 284	Early Child Capstone Practicum	1	9	0	4

OTHER MAJOR HOURS (6 Credit Hours)

CIS 110	Introduction to Computers	2	2	0	3
EDU 271	Educational Technology	2	2	0	3

TOTAL CREDIT HOURS IN DIPLOMA 44

Early Childhood Education - Preschool Certificate

(C55220C)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS (7 SHC)					
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 146	Child Guidance	3	0	0	3
OTHER MAJOR HOURS (9 SHC) Choose three courses:					
EDU 144	Child Development I (or)	3	0	0	3
EDU 145	Child Development II	3	0	0	3
EDU 131	Child, Family, and Community (or)	3	0	0	3
EDU 271	Educational Technology	2	2	0	3
EDU 153	Health, Safety, and Nutrition (or)	3	0	0	3
EDU 280	Language & Literacy Experiences	3	0	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 16

Early Childhood Education - Administration Certificate (C55220D)

		Class	Lab	Clinic/Exp	Credit
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 131	Child, Family, and Community (<i>or</i>)	3	0	0	3
EDU 146	Child Guidance	3	0	0	3
EDU 153	Health, Safety and Nutrition	3	0	0	3
EDU 261	Early Childhood Administration I	3	0	0	3
EDU 262	Early Childhood Administration II	3	0	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 16

Early Childhood Education - Pre-K Special Education Certificate (C55220F)

		Class	Lab	Clinic/Exp	Credit
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 144	Child Development I	3	0	0	3
EDU 145	Child Development II	3	0	0	3
EDU 154	Social/Emotional/Behavioral Development	3	0	0	3
EDU 161	Introduction to Exceptional Children	3	0	0	3
EDU 184	Early Childhood Introductory Practicum	1	3	0	2

TOTAL CREDIT HOURS IN CERTIFICATE 18

Electrical Systems Technology

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

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

Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Three tracks are available under the Electrical Systems Technology degree to allow students to select the specialty of their choice: **Electrical** (A35130E) and **Hydro-Mechanical** (A35130H), and Electronics (A35130K).

Electrical Systems Technology Degree - Electrical Pathway (A35130E)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)

- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (MAT 121, **MAT 171**)
- Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (28 Credit Hours)					
ELC 113	Residential Wiring	2	6	0	4
ELC 114	Commercial Wiring	2	6	0	4
ELC 115	Industrial Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 128	Introduction to PLC	2	3	0	3
ELC 131	Circuit Analysis I	3	3	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	1
ELC 134	Transformer Applications	1	2	0	2
OTHER MAJOR HOURS (24 Credit Hours)					
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
CIS 110	Introduction to Computers	2	2	0	3
DFT 151	CAD I	2	3	0	3
ELC 121	Electrical Estimating	1	2	0	2
ELC 220	Photovoltaic Sys Tech	2	3	0	3
ELN 133	Digital Electronics	3	3	0	4
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					67

Electrical Systems Technology Degree - Hydro-Mechanical Pathway

(A35130H)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)

- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (MAT 121, **MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (28 Credit Hours)					
ELC 113	Residential Wiring	2	6	0	4
ELC 115	Industrial Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 128	Introduction to PLC	2	3	0	3
ELC 131	Circuit Analysis I	3	3	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	1
ELC 134	Transformer Applications	1	2	0	2
ELC 213	Instrumentation	3	2	0	4
OTHER MAJOR HOURS (24 Credit Hours)					
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
CIS 110	Introduction to Computers	2	2	0	3
ELN 133	Digital Electronics	3	3	0	4
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
HYD 121	Hydraulics/Pneumatics II	1	3	0	2
HYD 210	Advanced Hydraulics	1	3	0	2
MEC 130	Mechanisms	2	2	0	3
MEC 161	Manufacturing Processes I	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					67

Electrical Systems Technology Degree - Electronics Pathway

(A35130K)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)

- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (28 Credit Hours)					
ELC 113	Residential Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 128	Introduction to PLC	2	3	0	3
ELC 131	Circuit Analysis I	3	3	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	1
ELN 131	Analog Electronics I	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
ELN 232	Intro to Microprocessors	3	3	0	4
OTHER MAJOR HOURS (24 Credit Hours)					
ACA 122	Elc/Fluid Power Diagrams	0	2	0	1
CSC 134	C++ Programming	2	3	0	3
ELC 139	AC Circuit Analysis	3	3	0	4
MAT 172	Precalculus Trigonometry	3	2	0	4
MAT 271	Calculus I	3	2	0	4
PHY 151	College Physics I	3	2	0	4
PHY 152	College Physics II	3	2	0	4
TOTAL CREDIT HOURS IN DEGREE					68

Electrical Systems Technology Diploma
(D35130)

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)

Communications (3 SHC)

- English Composition (**ENG 111**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (MAT 121, **MAT 171**)
- Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (28 Credit Hours)					
ELC 113	Residential Wiring	2	6	0	4
ELC 114	Commercial Wiring	2	6	0	4
ELC 115	Industrial Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 128	Introduction to PLC	2	3	0	3
ELC 131	Circuit Analysis I	3	3	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	1
ELC 134	Transformer Applications	1	2	0	2

OTHER MAJOR HOURS (8 Credit Hours)

BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
ELC 121	Electrical Estimating	1	2	0	2
ELN 133	Digital Electronics	3	3	0	4
TOTAL CREDIT HOURS IN DIPLOMA					42

Electrical Systems Technology Certificate

(C35130A)

		Class	Lab	Clinic/Exp	Credit
ELC 113	Residential Wiring (<i>or</i>)	2	6	0	4
ELC 115	Industrial Wiring (<i>and</i>)	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 128	Introduction to PLC	2	3	0	3
ELC 131	Circuit Analysis I	3	3	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	1

TOTAL CREDIT HOURS IN CERTIFICATE 18**Electrical Systems Technology -
Industrial and Photovoltaic Wiring Certificate**

(C35130B)

		Class	Lab	Clinic/Exp	Credit
ELC 114	Commercial Wiring	2	6	0	4
ELC 115	Industrial Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 220	Photovoltaic Systems Technology	2	3	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 17**Electrical Systems Technology -
Hydro-Mechanical Certificate**

(C35130C)

		Class	Lab	Clinic/Exp	Credit
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
HYD 121	Hydraulics/Pneumatics II	1	3	0	2
HYD 210	Advanced Hydraulics	1	3	0	2
ISC 112	Industrial Safety	2	0	0	2
MEC 130	Mechanisms	2	2	0	3
MEC 161	Manufacturing Processes I	3	0	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 17

Emergency Medical Science Degree/ Paramedic Bridge (A45340B)

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.

Students who have a current North Carolina or National Registry Paramedic certification, are affiliated with an Emergency Medical Provider, and are certified in Basic Trauma Life Support (ITLS) or (PHTLS), Advanced Trauma Life Support (ACLS), and Pediatric Advanced Life Support (PALS) are eligible to receive credit for courses marked with an asterisk (*).

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160,
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC)

- Psychology (**PSY 150**)

Natural Sciences/Mathematics (4 SHC)

- Biology (BIO 168)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (49 Credit Hours)					
BIO 169	Anatomy and Physiology II	3	3	0	4
*EMS 110	EMT-Basic	6	6	3	9
*EMS 122	EMS Clinical Practicum I	0	0	3	1
*EMS 130	Pharmacology	3	3	0	4
*EMS 131	Advanced Airway Management	1	2	0	2
*EMS 160	Cardiology I	2	3	0	3
*EMS 220	Cardiology II	2	3	0	3
*EMS 221	EMS Clinical Practicum II	0	0	6	2
*EMS 231	EMS Clinical Practicum III	0	0	9	3
*EMS 240	Patients With Special Challenges	1	2	0	2
*EMS 241	EMS Clinical Practicum IV	0	0	12	4
*EMS 250	Medical Emergencies	3	3	0	4
*EMS 260	Trauma Emergencies	1	3	0	2
*EMS 270	Life Span Emergencies	3	3	0	4
Bridge Elective (Choose one course)					
EMS 280	EMS Bridging Course	2	2	0	3
EMS 285	EMS Capstone	1	3	0	2

OTHER MAJOR HOURS (11 Credit Hours)

CIS 110	Introduction to Computers	2	2	0	3
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3

EMS Elective

EMS 235	EMS Management	2	0	0	2
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TOTAL CREDIT HOURS IN DEGREE **76**

Fire Protection Technology Degree

(A55240)

The Fire Protection Technology curriculum is designed to provide students with knowledge and skills in the technical, managerial, and leadership areas necessary for advancement within the fire protection community and related firefighting industries, and to provide currently employed firefighters with knowledge and skills often required for promotional consideration.

Course work includes diverse fire protection subject areas, including fire prevention and safety, public education, building construction, fire ground strategies and tactics, and local government finance and laws, as they apply to emergency services management. Emphasis includes understanding fire characteristics and the structural consequences of fire, risk assessment and management; and relevant research, communications, and leadership methodologies.

Employment opportunities exist with fire departments, governmental agencies, industrial firms, insurance rating organizations, and educational organizations.

Collaborative Program Offered in Cooperation with Central Piedmont Community College

In this Instructional Service Agreement, students may take general education courses at South Piedmont Community College. Central Piedmont Community College will provide the FIP prefix courses as specified in the CPCC Fire Protection Technology curriculum. Students who successfully complete all requirements of the Fire Protection Technology program will be awarded an Associate in Applied Science Degree by Central Piedmont Community College.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)**Communications (6 SHC)**

- English (**ENG 111** and **ENG 112**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115.**)
- Interdisciplinary Humanities (HUM 120, HUM 130)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110)

Social/Behavioral Sciences (3 SHC)

- Psychology (**PSY 150**)

Natural Sciences/Mathematics (3 SHC)

- Mathematics (**MAT 143, MAT 152, MAT 171, MAT 271**)

OTHER MAJOR HOURS (14 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers	2	2	0	3
Chemistry/Hazmat I (Choose one course)					
CHM 151	General Chemistry I	3	3	0	4
PHY 151	College Physics I	3	2	0	4

Chemistry/Hazmat II (Choose one course)

CHM 152	General Chemistry II	3	3	0	4
PHY 152	College Physics II	3	2	0	4

Communication (Choose one course)

COM 110	Introduction to Communication	3	0	0	3
COM 231	Public Speaking	3	0	0	3

TOTAL CREDIT HOURS Offered by SPCC **29**

Human Services Technology Degree

(A45380)

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.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (25 Credit Hours)					
HSE 110	Introduction to Human Services	2	2	0	3
HSE 112	Group Process I	1	2	0	2
HSE 123	Interviewing Techniques	2	2	0	3

HSE 125	Counseling	2	2	0	3
HSE 210	Human Services Issues	2	0	0	2
HSE 225	Crisis Intervention	3	0	0	3
PSY 150	General Psychology	3	0	0	3
PSY 281	Abnormal Psychology	3	0	0	3
SOC 220	Social Problems	3	0	0	3
OTHER MAJOR HOURS (25 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
GRO 120	Gerontology	3	0	0	3
HSE 220	Case Management	3	0	0	3
SAB 110	Substance Abuse Overview	3	0	0	3
SWK 113	Working with Diversity	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
WBL 121	Work-Based Learning II	0	0	10	1
WBL 125	Work-Based Learning Seminar II	1	0	0	1
Electives (Choose at least 6 Credit Hours)					
GRO 250	Aging Policies Programs & Services	2	0	0	2
HSE 227	Children and Adol in Crisis	3	0	0	3
HSE 242	Family Systems	3	0	0	3
SAB 130	Addictive Behaviors	3	0	0	3
SAB 135	Addictive Process	3	0	0	3
TOTAL CREDIT HOURS IN DEGREE					65

Human Services Technology Diploma

(D45380)

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (17 Credit Hours)					
HSE 110	Introduction to Human Services	2	2	0	3
HSE 112	Group Process I	1	2	0	2
HSE 123	Interviewing Techniques	2	2	0	3
HSE 125	Counseling	2	2	0	3
HSE 225	Crisis Intervention	3	0	0	3
PSY 150	General Psychology	3	0	0	3
OTHER MAJOR HOURS (15 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
GRO 120	Gerontology	3	0	0	3
HSE 220	Case Management	2	2	0	3
HSE 242	Family Systems	3	0	0	3
SWK 113	Working with Diversity	3	0	0	3
TOTAL CREDIT HOURS IN DIPLOMA					38

Human Services Technology - Substance Abuse Certificate
(C45380)

		Class	Lab	Clinic/Exp	Credit
HSE 112	Group Process I	1	2	0	2
HSE 225	Crisis Intervention	3	0	0	3
PSY 150	General Psychology	3	0	0	3
SAB 110	Substance Abuse Overview	3	0	0	3
SAB 130	Addictive Behaviors	3	0	0	3
SAB 135	Addictive Process	3	0	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					17

Human Services Technology - Gerontology Certificate
(C45380G)

		Class	Lab	Clinic/Exp	Credit
HSE 123	Interviewing Techniques	2	2	0	3
HSE 210	Human Services Issues	2	0	0	2
GRO 120	Gerontology	3	0	0	3
GRO 250	Aging Policies Programs & Services	2	0	0	2
PSY 150	General Psychology	3	0	0	3
SWK 113	Working with Diversity	3	0	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					16

Industrial Systems Technology

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as lifelong learners.

Two tracks are available under the Industrial Systems Technology degree to allow students to select the specialty of their choice: **Machining** (A50240A) and **Industrial** (A50240B).

Industrial Systems Technology Degree - Machining Pathway (A50240A)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Mathematics (MAT 121)

MAJOR HOURS - CORE COURSES (35 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
ELC 131	Circuit Analysis I	3	3	0	4
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 111	Machining Technology I	2	12	0	6
MAC 112	Machining Technology II	2	12	0	6
MAC 114	Intro to Metrology	2	0	0	2
MAC 151	Machining Calculations	1	2	0	2
MAC 241	Jigs and Fixtures I	2	6	0	4
MNT 110	Intro to Maintenance Procedures	1	3	0	2
WLD 112	Basic Welding Processes	1	3	0	2

OTHER MAJOR HOURS (24 Credit Hours)

CIS 110	Introduction to Computers	2	2	0	3
ELC 131A	Circuit Analysis Lab I	0	3	0	1
MAC 121	Intro to CNC	2	0	0	2
MAC 122	CNC Turning	1	3	0	2
MAC 124	CNC Milling	1	3	0	2
MAC 132	Blueprint Reading/Mach II	1	2	0	2
MAC 152	Adv Machining Calculations	1	2	0	2
MAC 245	Mold Construction I	2	6	0	4
MEC 142	Physical Metallurgy	1	2	0	2

Electives (Choose at least 4 Credit Hours)

MAC 113	Machining Technology III	2	12	0	6
MAC 243	Die Making I	2	6	0	4
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE **74**

**Industrial Systems Technology Degree -
Industrial Pathway
(A50240B)**

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (MAT 121)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (35 Credit Hours)					
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
ELC 131	Circuit Analysis I	3	3	0	4
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 111	Machining Technology I	2	12	0	6
MAC 112	Machining Technology II	2	12	0	6
MAC 114	Intro to Metrology	2	0	0	2
MAC 151	Machining Calculations	1	2	0	2
MAC 241	Jigs and Fixtures I	2	6	0	4
MNT 110	Intro to Maintenance Procedures	1	3	0	2
WLD 112	Basic Welding Processes	1	3	0	2
OTHER MAJOR HOURS (24 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
ELC 115	Industrial Wiring	2	6	0	4
ELC 117	Motors and Controls	2	6	0	4
ELC 128	Introduction to PLC	2	3	0	3
ELC 131A	Circuit Analysis Lab I	0	3	0	1
MEC 130	Mechanisms	2	2	0	3

Electives (Choose at least 6 Credit Hours)

ATR 112	Intro to Automation	2	3	0	3
DFT 151	CAD I	2	3	0	3
DFT 152	CAD II	2	3	0	3
ELC 215	Electrical Maintenance	2	3	0	3
ELN 231	Industrial Controls	2	3	0	3
MAC 113	Machining Technology III	2	12	0	6
MAC 243	Die Making I	2	6	0	4

TOTAL CREDIT HOURS IN DEGREE 74

Industrial Systems Technology - Machining Certificate

(C50240A)

		Class	Lab	Clinic/Exp	Credit
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
ISC 112	Industrial Safety	2	0	0	2
MAC 111	Machining Technology I	2	12	0	6
MAC 121	Intro to CNC	2	0	0	2
MAC 122	CNC Turning	1	3	0	2
MAC 124	CNC Milling	1	3	0	2

TOTAL CREDIT HOURS IN CERTIFICATE 16

Industrial Systems Technology - Maintenance Certificate

(C50240M)

		Class	Lab	Clinic/Exp	Credit
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
ELC 215	Electrical Maintenance	2	3	0	3
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MNT 110	Intro to Maintenance Procedures	1	3	0	2
MNT 111	Maintenance Practices	2	2	0	3
WLD 112	Basic Welding Processes	1	3	0	2

TOTAL CREDIT HOURS IN CERTIFICATE 17

Industrial Systems Technology - Welding Certificate

(C50240W)

		Class	Lab	Clinic/Exp	Credit
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
ISC 112	Industrial Safety	2	0	0	2
WLD 110	Cutting Processes	1	3	0	2
WLD 112	Basic Welding Processes	1	3	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	5
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4

TOTAL CREDIT HOURS IN CERTIFICATE 17

Infant/Toddler Care Certificate (C55290)

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 infants and toddlers.

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 families and children; design and implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start Programs, and other infant/toddler programs.

		Class	Lab	Clinic/Exp	Credit
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 131	Child, Family, & Community	3	0	0	3
EDU 144	Child Development I	3	0	0	3
EDU 153	Health, Safety, & Nutrition	3	0	0	3
EDU 234	Infants, Toddlers, & Twos	3	0	0	3

TOTAL CREDIT HOURS IN CERTIFICATE..... 16

Information Technology

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student’s ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

The following seven tracks are available under the Information Technology degree to allow students to select the specialty of their choice:

Information Systems A25590A

IT Business Support A25590C

Systems Security A25590E

Web Administration and Design A25590F

Game and Simulation Programming A25590G

Requirements for each follow.

Information Technology Degree - Information Systems Pathway (A25590A)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**, **PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251**, **ECO 252**)
- Geography (GEO 111)
- History (**HIS 111**, **HIS 112**, **HIS 131**, **HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210**, SOC 220)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110**, BIO 140)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143**, **MAT 152**, **MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

MAJOR HOURS - CORE COURSES (24 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers	2	2	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTI 120	Network & Sec Foundation	2	2	0	3
CTS 115	Info Systems Business Concepts	3	0	0	3
CTS 120	Hardware/Software Support	2	3	0	3
CTS 155	Tech Support Functions	2	2	0	3
NOS 110	Operating System Concepts	2	3	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3

OTHER MAJOR HOURS (27 Credit Hours)

CTS 289	System Support Project	1	4	0	3
DBA 110	Database Concepts	2	3	0	3
DBA 120	Database Programming I	2	2	0	3
NET 225	Routing & Switching	1	4	0	3
NET 226	Routing & Switching II	1	4	0	3
NOS 130	Windows Single User	2	2	0	3
NOS 230	Windows Administration I	2	2	0	3
SEC 110	Security Concepts	2	2	0	3

Electives I (Choose one group)

CIS 115	Intro to Prog & Logic (or)	2	3	0	3
CTS 288	Professional Practices in IT (or)	2	2	0	3
WBL 110	World of Work (and)	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE 66

Information Technology Degree - IT Business Support Pathway
(A25590C)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

MAJOR HOURS - CORE COURSES (18 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers	2	2	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTI 120	Network & Sec Foundation	2	2	0	3
CTS 115	Info Systems Business Concepts	3	0	0	3
CTS 130	Spreadsheet	2	2	0	3
DBA 110	Database Concepts	2	3	0	3

OTHER MAJOR HOURS (33 Credit Hours)

CTS 120	Hardware/Software Support	2	3	0	3
CTS 125	Presentaion Graphics	2	2	0	3
CTS 155	Tech Support Functions	2	2	0	3
DBA 120	Database Programming I	2	2	0	3
NOS 110	Operating System Concepts	2	3	0	3

NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
OST 136	Word Processing	2	2	0	3
OST 236	Advanced Word/Information Processing	2	2	0	3
SEC 110	Security Concepts	2	2	0	3

Electives (Choose one group)

CIS 115	Intro to Prog & Logic (or)	2	3	0	3
CTS 288	Professional Practices in IT (or)	2	2	0	3
WBL 110	World of Work (and)	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE **66**

Information Technology Degree- Systems Security Pathway (A25590E)

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)**Communications (6 SHC)**

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (18 Credit Hours)					
CCT 110	Intro to Cyber Crime	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTI 120	Network & Sec Foundation	2	2	0	3
CTS 115	Info Systems Business Concepts	3	0	0	3
SEC 110	Security Concepts	2	2	0	3

OTHER MAJOR HOURS (33 Credit Hours)

CET 150	Computer Forensics I	2	3	0	3
CET 250	Computer Forensics II	2	3	0	3
CTS 120	Hardware/Software Support	2	3	0	3
CTS 155	Tech Support Functions	2	2	0	3
NET 225	Routing & Switching	1	4	0	3
NET 226	Routing & Switching II	1	4	0	3
NOS 110	Operating System Concepts	2	3	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
NOS 230	Windows Administration I	2	2	0	3

Electives (Choose one group)

CIS 115	Intro to Prog & Logic (or)	2	3	0	3
CTS 288	Professional Practices in IT (or)	2	2	0	3
WBL 110	World of Work (and)	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE 66

**Information Technology Degree -
Web Administration and Design Pathway
(A25590F)**

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, COM 120, COM 140, COM 231)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (18 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTI 120	Network & Sec Foundation	2	2	0	3
CTS 115	Info Systems Business Concepts	3	0	0	3
DBA 120	Database Programming I	2	2	0	3
WEB 210	Web Design	2	2	0	3
OTHER MAJOR HOURS (32 Credit Hours)					
CSC 151	JAVA Programming	2	3	0	3
DBA 110	Database Concepts	2	3	0	3
DME 110	Intro to Digital Media	2	2	0	3
DME 120	Intro to Multimedia Appl	2	2	0	3
GRD 151	Computer Design Basics	1	4	0	3
GRD 275	Animation I	1	3	0	2
NOS 110	Operating System Concepts	2	3	0	3
NOS 230	Windows Administration I	2	2	0	3
SEC 110	Security Concepts	2	2	0	3
WEB 214	Social Media	2	2	0	3
Electives (Choose one group)					
CIS 115	Intro to Prog & Logic (or)	2	3	0	3
CTS 288	Professional Practices in IT (or)	2	2	0	3
WBL 110	World of Work (and)	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					65

**Information Technology Degree -
Game and Simulation Programming Pathway
(A25590G)**

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110**, BIO 140)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (18 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
CSC 151	JAVA Programming	2	3	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTI 120	Network & Sec Foundation	2	2	0	3
CTS 115	Info Systems Business Concepts	3	0	0	3
SGD 111	Introduction to SGD	2	3	0	3

OTHER MAJOR HOURS (33 Credit Hours)

CSC 134	C++ Programming	2	3	0	3
CTS 120	Hardware/Software Support	2	3	0	3
CTS 125	Presentation Graphics	2	2	0	3
DBA 110	Database Concepts	2	3	0	3
DBA 120	Database Programming I	2	2	0	3
NOS 110	Operating System Concepts	2	3	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
SEC 110	Security Concepts	2	2	0	3
SGD 112	SGD Design	2	3	0	3

Electives (Choose one group)

CIS 115	Intro to Prog & Logic (or)	2	3	0	3
CTS 288	Professional Practices in IT (or)	2	2	0	3
WBL 110	World of Work (and)	1	0	0	1
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE 66

**Information Technology
Information Systems Certificate
(C25590A)**

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers (or)	2	2	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTS 120	Hardware/Software Support	2	3	0	3
CTS 155	Tech Support Functions	2	2	0	3
NOS 110	Operating System Concepts	2	3	0	3
CTI 120	Network & Sec Foundation	2	2	0	3
WBL 110	World of Work (or)	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1

TOTAL CREDIT HOURS IN CERTIFICATE 16

**Information Technology
Operating Systems Certificate**
(C25590B)

		Class	Lab	Clinic/Exp	Credit
CTS 120	Hardware/Software Support	2	3	0	3
NOS 110	Operating System Concepts	2	3	0	3
NOS 120	Linux/UNIX Single User	2	2	0	3
NOS 130	Windows Single User	2	2	0	3
NOS 230	Windows Administration I	2	2	0	3
WBL 110	World of Work (or)	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1

TOTAL CREDIT HOURS IN CERTIFICATE 16

**Information Technology
Microsoft Office Certificate**
(C25590C)

		Class	Lab	Clinic/Exp	Credit
CTS 125	Presentation Graphics	2	2	0	3
CTS 130	Spreadsheet	2	2	0	3
DBA 110	Database Concepts	2	3	0	3
OST 136	Word Processing	2	2	0	3
OST 236	Advanced Word/Information Processing	2	2	0	3
WBL 110	World of Work (or)	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1

TOTAL CREDIT HOURS IN CERTIFICATE 16

**Information Technology
System Security Certificate**
(C25590F)

		Class	Lab	Clinic/Exp	Credit
CCT 110	Intro to Cyber Crime	3	0	0	3
CET 150	Computer Forensics I	2	3	0	3
CET 250	Computer Forensics II	2	3	0	3
CTI 120	Network & Sec Foundation	2	2	0	3
SEC 110	Security Concepts	2	2	0	3
WBL 110	World of Work (or)	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1

TOTAL CREDIT HOURS IN CERTIFICATE 16

Information Technology
Web Administration and Design Certificate
 (C25590G)

		Class	Lab	Clinic/Exp	Credit
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
DME 110	Intro to Digital Media	2	2	0	3
DME 120	Intro to Multimedia Appl	2	2	0	3
WEB 210	Web Design	2	2	0	3
WEB 214	Social Media	2	2	0	3
WBL 110	World of Work <i>(or)</i>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
TOTAL CREDIT HOURS IN CERTIFICATE					16

Information Technology
Swift Programming Certificate
 (C25590J)

		Class	Lab	Clinic/Exp	Credit
CIS 115	Intro to Prog & Logic	2	3	0	3
CSC 118	Swift Programming I	2	3	0	3
CSC 218	Swift Programming II	2	3	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTI 120	INetwork & Sec Foundation	2	2	0	3
CTS 115	Info Sys Business Concepts	3	0	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					18

Information Technology
Python Programming Certificate
 (C25590K)

		Class	Lab	Clinic/Exp	Credit
CIS 115	Intro to Prog & Logic	2	3	0	3
CSC 121	Python Programming	2	3	0	3
CSC 221	Advanced Python Programming	2	2	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTI 120	INetwork & Sec Foundation	2	2	0	3
CTS 115	Info Sys Business Concepts	3	0	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					18

Licensed Practical Nurse Refresher Certificate

(C45390)

The Licensed Practical Nurse Refresher curriculum provides a refresher course for individuals previously licensed as Practical Nurses and who are ineligible for reentry into nursing practice due to a lapse in licensure for five or more years. *Individuals entering this curriculum must have been previously licensed as a Practical Nurse.*

Course work includes common medical-surgical conditions and nursing approaches to their management, including mental health principles, pharmacological concepts, and safe clinical nursing practice.

Graduates will be eligible to apply for reinstatement of licensure by the North Carolina Board of Nursing. Employment opportunities include hospitals, long term care facilities, clinics, physicians' offices, industry, and community health agencies.

		Class	Lab	Clinic/Exp	Credit
NUR 107	LPN Refresher	9	0	9	12

TOTAL CREDIT HOURS IN CERTIFICATE 12

Mechanical Engineering Technology Degree

(A40320)

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study 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.

Two tracks are available under the Mechanical Engineering degree, Mechanical Pathway (A40320A) and Mechanical Engineering Pathway (A40320B). Requirements follow.

Mechanical Engineering Technology Degree - Mechanical Pathway

(A40320A)

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**, **PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (**GEO 111**)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (4 SHC)

- Mathematics (**MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (21 Credit Hours)					
DFT 151	CAD I	2	3	0	3
DFT 154	Intro Solid Modeling	2	3	0	3
EGR 250	Statics/Strength of Mater	4	3	0	5
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
MEC 145	Mfg Materials I	2	3	0	3
PHY 151	College Physics I	3	2	0	4
OTHER MAJOR HOURS (31 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
DFT 152	CAD II	2	3	0	3
ELC 117	Motors and Controls	2	6	0	4
ELC 128	Introduction to PLC	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 114	Intro to Metrology	2	0	0	2
MAC 121	Introduction to CNC	2	0	0	2
MAC 122	CNC Turning	1	3	0	2
MEC 130	Mechanisms	2	2	0	3
MEC 161	Manufacturing Processes I	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1
Electives (Choose at least 3 Credit Hours)					
ATR 112	Intro to Automation	2	3	0	3
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
BUS 135	Principles of Supervision	3	0	0	3
BUS 139	Entrepreneurship I	3	0	0	3
CHM 151	General Chemistry I	2	3	0	3
CSC 134	C++ Programming	2	3	0	3
CSC 151	JAVA Programming	2	3	0	3
CTI 120	Network and Sec Foundation	2	2	0	3
ELN 131	Analog Electronics I	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
ISC 132	Mfg Quality Control	2	3	0	3
MAC 151	Machining Calculations	1	2	0	2
MAT 172	Precalculus Trigonometry	3	2	0	4
MEC 180	Engineering Materials	2	3	0	3
MEC 260	Fundamentals of Machine Design	2	3	0	3
WBL 110	World of Work	1	0	0	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
WLD 112	Basic Welding Processes	1	3	0	2
TOTAL CREDIT HOURS IN DEGREE					68

Mechanical Engineering Technology Degree - Engineering Pathway (A40320B)

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (4 SHC)

- Mathematics (**MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (21 Credit Hours)					
DFT 151	CAD I	2	3	0	3
DFT 154	Intro Solid Modeling	2	3	0	3
EGR 250	Statics/Strength of Mater	4	3	0	5
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
MEC 145	Mfg Materials I	2	3	0	3
PHY 151	College Physics I	3	2	0	4
OTHER MAJOR HOURS (31 Credit Hours)					
CHM 151	General Chemistry I	2	3	0	4
CSC 134	C++ Programming	2	3	0	3
ELC 131	Circuit Analysis I	3	3	0	4
ELC 131A	Circuit Analysis I Lab	0	3	0	1
MAC 111	Machining Technology I	2	12	0	6
MAT 172	Precalculus Trigonometry	3	2	0	4
MEC 130	Mechanisms	2	2	0	3
MEC 161	Manufacturing Processes I	3	0	0	3
Electives (Choose at least 3 Credit Hours)					
ATR 112	Intro to Automation	2	3	0	3
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
BUS 135	Principles of Supervision	3	0	0	3
BUS 139	Entrepreneurship I	3	0	0	3
CSC 151	JAVA Programming	2	3	0	3
CTI 120	Network and Sec Foundation	2	2	0	3
ELN 131	Analog Electronics I	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
ISC 132	Mfg Quality Control	2	3	0	3

MAC 151	Machining Calculations	1	2	0	2
MAT 271	Calculus I	3	2	0	4
MAT 272	Calculus II	3	2	0	4
MEC 180	Engineering Materials	2	3	0	3
MEC 260	Fundamentals of Machine Design	2	3	0	3
PHY 152	College Physics II	3	2	0	4
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
WLD 112	Basic Welding Processes	1	3	0	2
TOTAL CREDIT HOURS IN DEGREE					68

Mechanical Engineering Technology - Mechatronics Certificate
(C40320E)

		Class	Lab	Clinic/Exp	Credit
DFT 151	CAD I	2	3	0	3
ELC 117	Motors and Controls	2	6	0	4
ELC 128	Introduction to PLC	2	3	0	3
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
MAC 121	Introduction to CNC	2	0	0	2
MEC 145	Mfg Materials I	2	3	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					18

Mechatronics Engineering Technology Degree
(A40350)

The Engineering and Technology 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.

Mechatronics Engineering Technology is a course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Study includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)

- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220,**)

Natural Sciences/Mathematics (4 SHC)

- Mathematics (**MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (36 Credit Hours)					
ATR 112	Introduction to Automation	2	3	0	3
CIS 110	Introduction to Computers	2	2	0	3
DFT 151	CAD I	2	3	0	3
ELC 117	Motors and Controls	2	6	0	4
ELC 128	Introduction to PLC	2	3	0	3
ELC 131	Circuit Analysis I	3	3	0	4
ELC 213	Instrumentation	3	2	0	4
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MEC 130	Mechanisms	2	2	0	3
PHY 151	College Physics I	3	2	0	4
OTHER MAJOR HOURS (15 Credit Hours)					
DFT 154	Intro Solid Modeling	2	3	0	3
ELC 131A	Circuit Analysis I Lab	0	3	0	1
MAC 121	Introduction to CNC	2	0	0	2
MEC 145	Mfg Materials I	2	3	0	3
MEC 161	Manufacturing Processes I	3	0	0	3
Electives (Choose at least 3 Credit Hours)					
BPR 115	Elc/Fluid Power Diagrams	1	2	0	2
BUS 135	Principles of Supervision	3	0	0	3
BUS 139	Entrepreneurship I	3	0	0	3
CSC 151	JAVA Programming	2	3	0	3
CTI 120	Network and Sec Foundation	2	2	0	3
DFT 152	CAD II	2	3	0	3
ELC 215	Electrical Maintenance	2	3	0	3
ELN 131	Analog Electronics I	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
ISC 132	Mfg Quality Control	2	3	0	3
MAC 114	Intro to Metrology	2	0	0	2
MAC 132	Blueprint Reading/Mach II	1	2	0	2
MEC 260	Fundamentals of Machine Design	2	3	0	3
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
WLD 112	Basic Welding Processes	1	3	0	2
TOTAL CREDIT HOURS IN DEGREE					67

Medical Assisting Degree (A45400)

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, 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.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC)

- Psychology (**PSY 150**)

Natural Sciences/Mathematics (3 SHC)

- Biology (BIO 271)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (33 Credit Hours)					
BIO 163	Basic Anatomy & Physiology	4	2	0	5
MED 110	Orientation to Medical Assisting	1	0	0	1
MED 118	Medical Law and Ethics	2	0	0	2
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
MED 130	Administrative Office Procedures I	1	2	0	2
MED 131	Administrative Office Procedures II	1	2	0	2
MED 140	Exam Room Procedures I	3	4	0	5
MED 150	Laboratory Procedures I	3	4	0	5
MED 260	MED Clinical Practicum	0	0	15	5
OTHER MAJOR HOURS (20 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
MED 136	Preventive Health	2	0	0	2
MED 138	Infection/Hazard Control	2	0	0	2
MED 230	Admin Office Proc III	1	2	0	2
MED 264	Medical Assisting Overview	2	0	0	2
MED 270	Symptomatology	2	2	0	3
MED 272	Drug Therapy	3	0	0	3

Electives (Choose at least 3 Credit Hours)

BUS 137	Principles of Management	3	0	0	3
BUS 152	Human Relations	3	0	0	3
OST 148	Med Coding Billing & Insurance	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1

TOTAL CREDIT HOURS IN DEGREE **68**

Medical Assisting Diploma

(D45400)

The Medical Assisting program is a 1 + 1 diploma/degree option. In order to progress into the Associate in Applied Science degree, students must have successfully completed the diploma option with a 2.5 GPA.

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)**Communications (6 SHC)**

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (30 Credit Hours)					
BIO 163	Basic Anatomy & Physiology	4	2	0	5
MED 110	Orientation to Medical Assisting	1	0	0	1
MED 118	Medical Law and Ethics	2	0	0	2
MED 121	Medical Terminology I	3	0	0	3
MED 130	Administrative Office Procedures I	1	2	0	2
MED 131	Administrative Office Procedures II	1	2	0	2
MED 140	Exam Room Procedures I	3	4	0	5
MED 150	Laboratory Procedures I	3	4	0	5
MED 260	MED Clinical Practicum	0	0	15	5
OTHER MAJOR HOURS (10 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
MED 138	Infection/Hazard Control	2	0	0	2
MED 264	Medical Assisting Overview	2	0	0	2
MED 270	Symptomatology	2	2	0	3
TOTAL CREDIT HOURS IN DIPLOMA					46

Medical Assisting - Medical Laboratory Assistant (MLA) Certificate

(C45400A)

		Class	Lab	Clinic/Exp	Credit
MED 110	Orientation to Medical Assisting	1	0	0	1
MED 118	Medical Law and Ethics	2	0	0	2
MED 121	Medical Terminology I	3	0	0	3
MED 130	Administrative Office Procedures I	1	2	0	2
MED 138	Infection/Hazard Control	2	0	0	2
MED 150	Laboratory Procedures I	3	4	0	5
WBL 111	Work-Based Learning I	0	0	10	1
TOTAL CREDIT HOURS IN CERTIFICATE					16

Medical Office Administration

The Medical Office Administration curriculum prepares individuals for employment as medical administrative personnel in the areas of medical office, medical billing and coding, dental office, patient services, and medical documents.

Course work includes medical terminology, computer applications, medical office management, medical coding, medical insurance and billing, medical legal and ethical issues, oral and written communication, and other topics depending on the subject area selected within this curriculum.

Graduates should qualify for employment opportunities in a variety of medical office positions in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other healthcare related organizations. Upon graduation, students may be eligible to sit for industry recognized certification exams.

Two tracks are available under the Medical Office Administration degree to allow students to select the specialty of their choice: General Medical Office Administration (A25310A) and Medical Billing and Coding (A25310B): Requirements for each follow.

Medical Office Administration Degree- General Medical Office Administration Pathway (A25310A)

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (4 SHC)

- Biology (BIO 168)

MAJOR HOURS - CORE COURSES (36 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers	2	2	0	3
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
OST 134	Text Entry & Formatting	2	2	0	3
OST 136	Word Processing	2	2	0	3
OST 148	Medical Coding, Billing, & Insurance	3	0	0	3
OST 149	Medical Legal Issues	3	0	0	3
OST 164	Text Editing Applications	3	0	0	3

OST 184	Records Management	2	2	0	3
OST 236	Adv Word Processing	2	2	0	3
OST 286	Professional Development	3	0	0	3
OST 288	Medical Office Admin Capstone	2	2	0	3
OTHER MAJOR HOURS (14 Credit Hours)					
BUS 121	Business Math	2	2	0	3
OST 131	Keyboarding	1	2	0	2
OST 243	Medical Office Simulation	2	2	0	3
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
Electives (Choose at least 4 Credit Hours)					
ACC 120	Principles of Financial Accounting	3	2	0	4
BIO 169	Anatomy and Physiology II	3	3	0	4
CTS 125	Presentation Graphics	2	2	0	3
CTS 130	Spreadsheet	2	2	0	3
OST 247	Procedure Coding	1	2	0	2
OST 248	Diagnostic Coding	1	2	0	2
OST 250	Long Term Care Coding	1	2	0	2
WBL 110	World of Work	1	0	0	1
WBL 121	Work-Based Learning II	0	0	10	1
TOTAL CREDIT HOURS IN DEGREE					66

**Medical Office Administration Degree-
Medical Billing and Coding Pathway
(A25310B)**

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (4 SHC)

- Biology (BIO 168)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (36 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
OST 134	Text Entry & Formatting	2	2	0	3
OST 148	Medical Coding, Billing, & Insurance	3	0	0	3
OST 149	Medical Legal Issues	3	0	0	3
OST 164	Text Editing Applications	3	0	0	3
OST 247	Procedure Coding	1	2	0	2
OST 248	Diagnostic Coding	1	2	0	2
OST 249	Med Coding Certification Prep	2	3	0	3
OST 260	Adv Coding Methodologies	2	2	0	3
OST 288	Medical Office Admin Capstone	2	2	0	3
OTHER MAJOR HOURS (14 Credit Hours)					
BIO 169	Anatomy and Physiology II	3	3	0	4
BUS 121	Business Math	2	2	0	3
OST 131	Keyboarding	1	2	0	2
OST 243	Medical Office Simulation	2	2	0	3
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					66

Medical Office Administration - Medical Insurance Coding Diploma (D25310)

GENERAL EDUCATION REQUIREMENTS (7 Credit Hours)

Communications (3 SHC)

- English Composition (ENG 111)

Natural Sciences/Mathematics (4 SHC)

- Biology (BIO 168)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (30 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
OST 148	Medical Coding, Billing, & Insurance	3	0	0	3
OST 149	Medical Legal Issues	3	0	0	3
OST 164	Text Editing Applications	3	0	0	3
OST 247	Procedure Coding	2	2	0	3
OST 248	Diagnostic Coding	2	2	0	3
OST 249	Med Coding Certification Prep	2	3	0	3
OST 260	Adv Coding Methodologies	2	2	0	3
OTHER MAJOR HOURS (7 Credit Hours)					
BIO 169	Anatomy and Physiology II	3	3	0	4
OST 131	Keyboarding	1	2	0	2
WBL 121	Work-Based Learning II	0	0	10	1
TOTAL CREDIT HOURS IN DIPLOMA					44

Medical Office Administration Certificate

(C25310)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers	2	2	0	3
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
OST 131	Keyboarding	1	2	0	2
OST 148	Medical Coding, Billing, & Insurance	3	0	0	3
OST 243	Medical Office Simulation	2	2	0	3

TOTAL CREDIT HOURS IN CERTIFICATE 17

Medical Sonography Degree

(A45440)

The Medical Sonography curriculum provides knowledge and clinical skills in the application of high frequency sound waves to image internal body structures.

Course work includes physics, cross-sectional anatomy, abdominal, introductory vascular, and obstetrical/gynecological sonography. Competencies are attained in identification of normal anatomy and pathological processes, use of equipment, fetal growth and development, integration of related imaging, and patient interaction skills.

Graduates of accredited programs may be eligible to take examinations in ultrasound physics and instrumentation and specialty examinations administered by the American Registry of Diagnostic Medical Sonographers and find employment in clinics, physicians' offices, mobile services, hospitals, and educational institutions.

The SPCC Medical Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee for Diagnostic Medical Sonography (JRCDMS). Contact the Commission on Accreditation of Allied Health Education Programs, www.caahep.org, 1361 Park Street, Clearwater, FL 33756, or call 727-210-2350 for questions about the accreditation.

GENERAL EDUCATION REQUIREMENTS (16 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**, **PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Psychology (**PSY 150**)
- Sociology (**SOC 210**)

Natural Sciences/Mathematics (4 SHC) Choose one course:

- Mathematics (**MAT 152**, **MAT 171**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (54 Credit Hours)					
BIO 163	Basic Anatomy & Physiology	4	2	0	5
SON 110	Introduction to Sonography	1	3	3	3
SON 111	Sonographic Physics	3	3	0	4
SON 120	SON Clinical Education I	0	0	15	5
SON 121	SON Clinical Education II	0	0	15	5
SON 130	Abdominal Sonography I	2	3	0	3
SON 131	Abdominal Sonography II	1	3	0	2
SON 140	Gynecologic Sonography	2	0	0	2
SON 220	SON Clinical Education III	0	0	24	8
SON 221	SON Clinical Education IV	0	0	24	8
SON 225	Case Studies	0	3	0	1
SON 241	Obstetrical Sonography I	2	0	0	2
SON 242	Obstetrical Sonography II	2	0	0	2
SON 250	Vascular Sonography	1	3	0	2
SON 289	Sonographic Topics	2	0	0	2
OTHER MAJOR HOURS (6 Credit Hours)					
PHY 110	Conceptual Physics <i>and</i>	3	0	0	3
PHY 110A	Conceptual Physics Lab	0	2	0	1
SON 272	Advanced Pathology	0	3	0	1
SON 276	Fetal Echocardiology	1	0	0	1
TOTAL CREDIT HOURS IN DEGREE					76

Musculoskeletal Sonography (Certificate)

(C45850)

The Musculoskeletal Sonography curriculum provides sonographers the didactic and clinical experience necessary to perform entry level musculoskeletal (MSK) sonography.

Course work includes introduction to normal and abnormal anatomy and physiology of the upper and lower musculoskeletal system using state-of-the-art equipment.

Graduates may be eligible to apply to the American Registry of Diagnostic Medical Sonography (ARDMS) for national registry in Musculoskeletal Sonography. Graduates may find employment in clinics, hospitals, physicians' offices, mobile services, and educational institutions.

Individuals entering this curriculum must be registered or registry-eligible for the American Registry of Diagnostic Medical Sonography (ARDMS) or American Registry for Radiologic Technology (ARRT) exam for sonography.

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (16 Credit Hours)					
MSK 110	Musculoskeletal Sonography I	2	2	3	4
MSK 111	Musculoskeletal Sonography II	1	2	3	3
MSK 112	Musculoskeletal Sonography III	2	2	0	3
MSK 189	Musculoskeletal Topics	2	0	0	2
SON 111	Sonographic Physics	3	3	0	4
TOTAL CREDIT HOURS IN CERTIFICATE.....					16

Nurse Aide (Certificate)

(C45840)

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.

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (13 Credit Hours)					
NAS 101	Nurse Aide I	3	4	3	6
NAS 102	Nurse Aide II	3	2	6	6
NAS 107	Medication Aide	0	2	0	1
OTHER MAJOR HOURS (3 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
TOTAL CREDIT HOURS IN CERTIFICATE					16

Other Nursing Awards

Associate Degree Nursing

(A45110)

This program of study is on page VI-20 of this catalog.

Associate in General Education - Nursing

(A1030N)

This program of study is on page VI-12 of this catalog.

Licensed Practical Nurse Refresher Certificate

(C45390)

This program of study is on page VI-62 of this catalog.

Practical Nursing Diploma

(D45660)

This program of study is on page VI-77 of this catalog.

Paralegal Technology Degree (A25380)

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Course work includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

The SPCC Paralegal Technology Program is an institutional member of the American Association for Paralegal Education (AAfPE), www.aafpe.org. Accreditation through AAfPE allows graduates of the degree program to sit for the North Carolina Paralegal Certification Exam.

GENERAL EDUCATION REQUIREMENTS (15 Credit Hours)

Communications (6 SHC)

- English Composition (**ENG 111**)
- Communication (Choose one course: COM 110, **COM 120**, COM 140, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111, ART 114, ART 115**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (HUM 120, HUM 130, HUM 160)
- Music (**MUS 110, MUS 112**)
- Philosophy (**PHI 215, PHI 240**)
- Religion (REL 110, REL 211, REL 212, REL 221)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251, ECO 252**)
- Geography (GEO 111)
- History (**HIS 111, HIS 112, HIS 131, HIS 132**)
- Political Science (**POL 120**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 220**)

Natural Sciences/Mathematics (3 SHC)

- Choose one course from the following:
 - Astronomy (**AST 111/AST 111A**)
 - Principles of Biology (**BIO 110, BIO 140**)
 - Chemistry (**CHM 151**)
 - Mathematics (**MAT 143, MAT 152, MAT 171**)
 - Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (23 Credit Hours)					
LEX 110	Introduction to Paralegal Study	2	0	0	2
LEX 120	Legal Research/Writing I	2	2	0	3
LEX 130	Civil Injuries	3	0	0	3
LEX 140	Civil Litigation I	3	0	0	3
LEX 150	Commercial Law I	2	2	0	3
LEX 210	Real Property I	3	0	0	3
LEX 240	Family Law	3	0	0	3
LEX 250	Wills, Estates, & Trusts	2	2	0	3

OTHER MAJOR HOURS (26 Credit Hours)

ACC 120	Principles of Financial Accounting	3	2	0	4
CIS 110	Introduction to Computers	2	2	0	3
CJC 131	Criminal Law	3	0	0	3
LEX 141	Civil Litigation II	2	2	0	3
LEX 211	Real Property II	1	4	0	3
LEX 220	Corporate Law	2	0	0	2
LEX 280	Ethics & Professionalism	2	0	0	2
OST 136	Word Processing	2	2	0	3

Electives (Choose at least 3 Credit Hours)

ACC 129	Individual Income Taxes	2	2	0	3
CJC 132	Court Procedure & Evidence	3	0	0	3
CJC 231	Constitutional Law	3	0	0	3
WBL 110	World of Work	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1

TOTAL CREDIT HOURS IN DEGREE64

Paralegal Technology Diploma

(D25380)

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)**Communications (3 SHC)**

- English Composition (**ENG 111**)

Social/Behavioral Sciences (3 SHC)

- Psychology (**PSY 150**)

MAJOR HOURS - CORE COURSES (14 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
LEX 110	Introduction to Paralegal Study	2	0	0	2
LEX 120	Legal Research/Writing I	2	2	0	3
LEX 130	Civil Injuries	3	0	0	3
LEX 140	Civil Litigation I	3	0	0	3
LEX 150	Commercial Law	2	2	0	3

OTHER MAJOR HOURS (17 Credit Hours)

CIS 110	Introduction to Computers	2	2	0	3
LEX 141	Civil Litigation II	2	2	0	3
LEX 280	Ethics & Professionalism	2	0	0	2
OST 136	Word Processing	2	2	0	3

ELECTIVES (Choose at least 6 Credit Hours)

CJC 131	Criminal Law	3	0	0	3
LEX 210	Real Property I	3	0	0	3
LEX 211	Real Property II	1	4	0	3
LEX 220	Corporate Law	2	0	0	2
LEX 240	Family Law	3	0	0	3
LEX 250	Wills, Estates, & Trusts	2	2	0	3

TOTAL CREDIT HOURS IN DIPLOMA37

Paralegal Technology Certificate (C25380)

		Class	Lab	Clinic/Exp	Credit
LEX 110	Introduction to Paralegal Study	2	0	0	2
LEX 120	Legal Research/Writing I	2	2	0	3
LEX 210	Real Property I	3	0	0	3
LEX 220	Corporate Law	2	0	0	2
LEX 240	Family Law	3	0	0	3
LEX 250	Wills, Estates, & Trusts	2	2	0	3
LEX 280	Ethics & Professionalism	2	0	0	2
TOTAL CREDIT HOURS IN CERTIFICATE					18

Practical Nursing Diploma (D45660)

The Practical Nursing curriculum provides knowledge and skills to integrate safety and quality into nursing care to meet the needs of the holistic individual which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes safe, individualized nursing care and participation in the interdisciplinary team while employing evidence-based practice, quality improvement, and informatics.

Graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN) which is required for practice as a Licensed Practical Nurse. Employment opportunities include hospitals, rehabilitation/long term care/home health facilities, clinics, and physicians' offices.

The SPCC Practical Nursing Diploma Program is approved by the North Carolina Board of Nursing. Contact the Board at P. O. Box 2129, Raleigh, NC 27602-2129, or 4516 Lake Boone Trail, Raleigh, NC 27607, or call 919-782-3211 for questions about the approval.

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)

Communications (3 SHC)

- English Composition (ENG 111)

Social/Behavioral Sciences (3 SHC)

- Psychology (PSY 150)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (30 Credit Hours)					
NUR 101	Practical Nursing I	7	6	6	11
NUR 102	Practical Nursing II	7	0	9	10
NUR 103	Practical Nursing III	6	0	9	9
OTHER MAJOR HOURS (8 Credit Hours)					
BIO 168	Anatomy and Physiology I	3	3	0	4
BIO 169	Anatomy and Physiology II	3	0	0	4
TOTAL CREDIT HOURS IN DIPLOMA					44

Simulation and Game Development Degree

(A25450)

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3-D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

Collaborative Program Offered in Cooperation with Central Piedmont Community College

In this Instructional Service Agreement, students may take general education courses and introductory SGD prefix courses at South Piedmont Community College. Central Piedmont Community College will provide all other SGD prefix courses as specified within the CPCC curriculum. Students who successfully complete all requirements of the Simulation and Game Development program will be awarded an Associate in Applied Science degree by Central Piedmont Community College.

GENERAL EDUCATION REQUIREMENTS (18 Credit Hours)

English (6 SHC)

- English (**ENG 111**)
- Choose one course: **ENG 112**, **ENG 113**, **ENG 114**)

Communications (3 SHC) Choose one course:

- **COM 110**, **COM 120**, **COM 231**)

Humanities/Fine Arts (3 SHC) Choose one course:

- Art (**ART 111**, **ART 114**, **ART 115**, **ART 116**, **ART 117**)
- Drama (**DRA 111**)
- Interdisciplinary Humanities (**HUM 130**, **HUM 160**)
- Music (**MUS 110**, **MUS 112**)
- Philosophy (**PHI 215**)
- Religion (**REL 110**, **REL 211**, **REL 212**, **REL 221**)

Social/Behavioral Sciences (3 SHC) Choose one course:

- Economics (**ECO 251**, **ECO 252**)
- Geography (**GEO 111**)
- History (**HIS 111**, **HIS 112**, **HIS 131**, **HIS 132**)
- Political Science (**POL 120**,)
- Psychology (**PSY 150**)
- Sociology (**SOC 210**, **SOC 220**)

Mathematics (3 SHC) Choose one course:

- Mathematics (**MAT 143**, **MAT 152**, **MAT 171**, **MAT 172**, **MAT 271**)

	Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (6 Credit Hours)				
SGD 111 Introduction to SGD	2	3	0	3
SGD 112 SGD Design	2	3	0	3

OTHER MAJOR HOURS (9 Credit Hours)

Electives (Choose at least 9 Credit Hours)

CSC 151 JAVA Programming	2	3	0	3
GRD 121 Drawing Fundamentals	1	3	0	2
WEB 140 Web Development Tools	2	2	0	3
WBL 111 Work-Based Learning I	0	0	10	1
WBL 121 Work-Based Learning II	0	0	10	1

TOTAL CREDIT HOURS Offered by SPCC 33

Welding Technology Diploma (D50420)

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.

GENERAL EDUCATION REQUIREMENTS (6 Credit Hours)

Communications (3 SHC)

- English Composition (ENG 111)

Natural Sciences/Mathematics (3 SHC) Choose one course:

- Mathematics (MAT 143, MAT 171)

		Class	Lab	Clinic/Exp	Credit
MAJOR HOURS - CORE COURSES (18 Credit Hours)					
WLD 110	Cutting Processes	1	3	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	5
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD 131	GTAW (TIG) Plate	2	6	0	4
WLD 141	Symbols & Specifications	2	2	0	3
OTHER MAJOR HOURS (19 Credit Hours)					
CIS 110	Introduction to Computers	2	2	0	3
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	4
WLD 122	GMAW (MIG) Plate Pipe	1	6	0	3
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD 151	Fabrication I	2	6	0	4
WLD 261	Certification Practices	1	3	0	2
TOTAL CREDIT HOURS IN DIPLOMA					43

Welding Technology Basic Certificate (C50420A)

		Class	Lab	Clinic/Exp	Credit
WLD 110	Cutting Processes	1	3	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	5
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD 141	Symbols & Specifications	2	2	0	3
WLD 151	Fabrication I	2	6	0	4
TOTAL CREDIT HOURS IN CERTIFICATE					18

