

## 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 by placing out of or successfully completing courses at the DRE 098 and DMA 040 levels.

### 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 (A.F.A.), or an Associate in Science (A.S.) 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 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.

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 CORE .....45 SHC**

### English Composition (6 SHC)

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

### 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**)
  - Physics (**PHY 110/PHY 110A**)

### Additional General Education (14)

- Interdisciplinary Humanities (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, CHI 211, CHI 212)
  - French (FRE 111, FRE 112, FRE 211, FRE 212)
  - German (GER 111, GER 112, GER 211, GER 212)
  - Russian (RUS 111, RUS 112, RUS 211, RUS 212)
  - 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, CHI 211, CHI 212
  - 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, FRE 211, FRE 212
- GEL 111
- GEO 111
- GER 111, GER 112, GER 211, GER 212
- **HIS 111, HIS 112, HIS 115, HIS 131, HIS 132**
- HUM 120, HUM 130, HUM 160, HUM 211, HUM 212
- **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272, MAT 273**
- **MUS 110, MUS 112, MUS 113, MUS 114, MUS 210, MUS 211, MUS 212, MUS 213**
- **PHI 215, PHI 230, PHI 240**
- **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
- POL 110, **POL 120**, POL 210, POL 220
- **PSY 150, PSY 237, PSY 239, PSY 241, PSY 281**
- REL 110, REL 211, REL 212, REL 221
- RUS 111, RUS 112, RUS 211, RUS 212
- **SOC 210, SOC 213, SOC 220, SOC 225, SOC 240**
- 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 212, ART 213, ART 214, ART 240, ART 241, ART 260, 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 165, BIO 166, BIO 250, BIO 271, BIO 275**
- BUS 110, BUS 115, BUS 137
- CHI 111, CHI 112, CHI 211, CHI 212
- 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, COM 150
- CSC 151
- DRA 111, DRA 115, DRA 120, DRA 126, DRA 130, DRA 131
- **ECO 251, ECO 252**
- EGR 150
- ENG 113, ENG 114, ENG 125, ENG 126, **ENG 231, ENG 232, ENG 241, ENG 242, ENG 243, ENG 261, ENG 262**
- FRE 111, FRE 112, FRE 161, FRE 211, FRE 212
- GEL 111
- GEO 111
- GER 111, GER 112, GER 161, GER 211, GER 212
- HEA 110
- **HIS 111, HIS 112, HIS 115, HIS 131, HIS 132, HIS 145, HIS 221, HIS 236**
- HUM 120, HUM 130, HUM 160, HUM 180, HUM 211, HUM 212
- 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, MUS 113, MUS 114, MUS 131, MUS 132, MUS 161, MUS 162, MUS 210, MUS 211, MUS 212, MUS 213, MUS 261, MUS 262**

- PED 110, PED 111, PED 113, PED 120, PED 121, PED 122, PED 125, PED 142, PED 147, PED 171, PED 186, PED 219
- **PHI 215**, PHI 230, **PHI 240**
- **PHY 110**, **PHY 110A**, **PHY 151**, **PHY 152**, **PHY 251**, **PHY 252**
- POL 110, **POL 120**, POL 210, POL 220
- **PSY 150**, PSY 231, PSY 237, PSY 239, PSY 241, PSY 281
- REL 110, REL 211, REL 212, REL 221
- RUS 111, RUS 112, RUS 211, RUS 212
- **SOC 210**, SOC 213, SOC 220, SOC 225, SOC 240
- SPA 111, SPA 112, SPA 161, SPA 211, SPA 212

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM .....61 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 CORE .....46 SHC**

### **English Composition (6 SHC)**

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

### **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 (11)**

- 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, CHI 211, CHI 212)
  - French (FRE 111, FRE 112, FRE 211, FRE 212)

- German (GER 111, GER 112, GER 211, GER 212)
- Russian (RUS 111, RUS 112, RUS 211, RUS 212)
- 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, CHI 211, CHI 212
  - CHM 131, CHM 131A, CHM 132, **CHM 151, CHM 152**
  - CIS 110, CIS 115
  - COM 110, COM 120, COM 140
  - 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, FRE 211, FRE 212
  - **GEL 111**
  - GEO 111
  - GER 111, GER 112, GER 211, GER 212
  - **HIS 111, HIS 112, HIS 115, HIS 131, HIS 132**
  - HUM 120, HUM 130, HUM 160, HUM 211, HUM 212
  - **MAT 143, MAT 152, MAT 171, MAT 172, MAT 263, MAT 271, MAT 272, MAT 273**
  - **MUS 110, MUS 112, MUS 113, MUS 114, MUS 210, MUS 211, MUS 212, MUS 213**
  - **PHI 215, PHI 230, PHI 240**
  - **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
  - POL 110, **POL 120**, POL 210, POL 220
  - **PSY 150, PSY 237, PSY 239, PSY 241, PSY 281**
  - REL 110, REL 211, REL 212, REL 221
  - RUS 111, RUS 112, RUS 211, RUS 212
  - **SOC 210, SOC 213, SOC 220, SOC 225, SOC 230, SOC 240**
  - 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 credits 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**), (**AST151, AST 151A**)
  - Biology (**BIO 110, BIO 111, BIO 112, BIO 130, BIO 140, BIO 163, BIO 165, BIO 166, 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 212, ART 213, ART 214, ART 240, ART 241, ART 260, 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 165, BIO 166, BIO 250, BIO 271, BIO 275
- BUS 110, BUS 115, BUS 137
- CHI 111, CHI 112, CHI 211, CHI 212
- 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, COM 150
- CSC 151
- DRA 111, DRA 115, DRA 120, DRA 126, DRA 130, DRA 131
- **ECO 251, ECO 252**
- EGR 150
- ENG 113, ENG 114, ENG 125, ENG 126, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
- FRE 111, FRE 112, FRE 161, FRE 211, FRE 212
- **GEL 111**
- GEO 111
- GER 111, GER 112, GER 161, GER 211, GER 212
- HEA 110
- **HIS 111, HIS 112**, HIS 115, **HIS 131, HIS 132**, HIS 145, HIS 221, HIS 236
- HUM 120, HUM 130, HUM 160, HUM 180, HUM 211, HUM 212
- 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**, MUS 113, MUS 114, MUS 131, MUS 132, MUS 161, MUS 162, MUS 210, MUS 211, MUS 212, MUS 213, MUS 261, MUS 262
- PED 110, PED 111, PED 113, PED 120, PED 121, PED 122, PED 125, PED 142, PED 147, PED 171, PED 186, PED 219
- **PHI 215**, PHI 230, **PHI 240**
- **PHY 110, PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
- POL 110, **POL 120**, POL 210, POL 220
- **PSY 150**, PSY 231, PSY 237, PSY 239, PSY 241, PSY 281
- REL 110, REL 211, REL 212, REL 221
- RUS 111, RUS 112, RUS 211, RUS 212
- **SOC 210**, SOC 213, SOC 220, SOC 225, SOC 240
- SPA 111, SPA 112, SPA 161, SPA 211, SPA 212

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM .....61 SHC**

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.

## Associate in Fine Arts in Visual Arts Degree (A10600)

The Associate in Arts in Visual 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 CORE .....26 SHC**

**English Composition (6 SHC)**

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

**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 HOURS .....35 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 6 hours from the following:
  - **ART 116, ART 117, ART 135, ART 171, ART 240, ART 241, ART 260, ART 264, ART 265, ART 271, ART 275, ART 276, ART 281, ART 282, ART 283, ART 284, ART 288**

**Foreign Language (6SHC)**

- Choose two courses from one of the following groups :
  - ASL 111, ASL 112, ASL 211, ASL 212
  - CHI 111, CHI 112, CHI 211, CHI 212
  - FRE 111, FRE 112, FRE 211, FRE 212
  - GER 111, GER 112, GER 211, GER 212
  - RUS 111, RUS 112, RUS 211, RUS 212
  - 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 212, ART 213, ART 214, ART 240, ART 241, ART 260, 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 165, BIO 166, BIO 250, BIO 271, BIO 275
  - BUS 110, BUS 115, BUS 137
  - CHI 111, CHI 112, CHI 211, CHI 212
  - 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, COM 150
  - CSC 151
  - DRA 111, DRA 115, DRA 120, DRA 126, DRA 130, DRA 131
  - **ECO 251, ECO 252**
  - EGR 150
  - ENG 113, ENG 114, ENG 125, ENG 126, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
  - FRE 111, FRE 112, FRE 161, FRE 211, FRE 212
  - **GEL 111**
  - GEO 111
  - GER 111, GER 112, GER 161, GER 211, GER 212
  - HEA 110
  - **HIS 111, HIS 112**, HIS 115, **HIS 131, HIS 132**, HIS 145, HIS 221, HIS 236
  - HUM 120, HUM 130, HUM 160, HUM 180, HUM 211, HUM 212
  - 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**, MUS 113, MUS 114, MUS 131, MUS 132, MUS 161, MUS 162, MUS 210, MUS 211, MUS 212, MUS 213, MUS 261, MUS 262
  - PED 110, PED 111, PED 113, PED 120, PED 121, PED 122, PED 125, PED 142, PED 147, PED 171, PED 186, PED 219
  - **PHI 215, PHI 230, PHI 240**
  - **PHY 110, PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
  - POL 110, **POL 120**, POL 210, POL 220
  - **PSY 150**, PSY 231, PSY 237, PSY 239, PSY 241, PSY 281
  - REL 110, REL 211, REL 212, REL 221
  - RUS 111, RUS 112, RUS 211, RUS 212
  - **SOC 210**, SOC 213, SOC 220, SOC 225, SOC 240
  - SPA 111, SPA 112, SPA 161, SPA 211, SPA 212

**TOTAL SEMESTER HOURS CREDIT (SHC) IN PROGRAM .....61 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### **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 HOURS .....50 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 149, 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
- ALT 120
- ANS 110
- **ART 111, ART 114, ART 115**, ART 116, ART 117, ART 121, ART 122, ART 131, ART 135, ART 171, ART 212, ART 213, ART 214, ART 240, ART 241, ART 260, ART 264, ART 265, ART 271, 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
- 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 165, BIO 166, BIO 250, BIO 271, BIO 275
- BPR 111
- BUS 110, BUS 115, BUS 121, BUS 135, BUS 137, BUS 139, BUS 152, BUS 153, BUS 217, BUS 220, BUS 234, BUS 240, BUS 280
- CCT 110, CCT 112, CCT 121, CCT 220, CCT 231, CCT 285, CCT 289
- CET 150, CET 250
- CHI 111, CHI 112, CHI 211, CHI 212
- CHM 131/CHM 131A, CHM 132, **CHM 151, CHM 152**, CHM 251, CHM 252
- CIS 115
- 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, CJC 233, CJC 241
- COM 110, COM 120, COM 140, COM 150, **COM 231**
- CSC 151
- CTI 110, CTI 120
- CTS 115, CTS 120, CTS 125, CTS 130, CTS 155, 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
- DDT 110, DDT 230, DDT 240
- DFT 151, DFT 152, DFT 154
- DRA 111, DRA 115, DRA 120, DRA 126, DRA 130, DRA 131
- ECM 210
- **ECO 251, ECO 252**
- EDU 118, EDU 119, EDU 131, EDU 144, EDU 145, EDU 146, EDU 151, EDU 153, EDU 154, EDU 157, EDU 158, EDU 161, EDU 163, EDU 184, EDU 188, EDU 216, EDU 221, EDU 222, EDU 223, EDU 234, EDU 235, EDU 243, EDU 244, EDU 245, EDU 247, EDU 248, EDU 250, EDU 251, EDU 253, EDU 259, EDU 261, EDU 262, EDU 271, EDU 275, EDU 280, EDU 284, EDU 285, EDU 289
- EGR 150, EGR 251, EGR 252
- ELC 111, ELC 112, ELC 113, ELC 115, ELC 117, ELC 118, ELC 128, ELC 213, ELC 215, ELC 220, ELC 221
- ELN 131, ELN 132, ELN 133, ELN 231
- **ENG 111, ENG 112**, ENG 113, ENG 114, ENG 125, ENG 126, **ENG 231, ENG 232, ENG 241, ENG 242**, ENG 243, ENG 261, ENG 262
- ETR 230, ETR 270
- FRE 111, FRE 112, FRE 161, FRE 211, FRE 212
- GEO 111
- GER 111, GER 112, GER 161, GER 211, GER 212
- GRD 113, GRD 121, GRD 122, GRD 131, GRD 141, GRD 142, GRD 151, GRD 152, GRD 167, GRD 241, GRD 265, GRD 271, GRD 275, GRD 280, GRD 281, GRD 285
- GRO 120, GRO 250
- HBI 110, HBI 113
- HEA 110
- **HIS 111, HIS 112**, HIS 115, **HIS 131, HIS 132**, HIS 145, HIS 221, HIS 236
- HIT 211, HIT 214
- HRM 220, HRM 225, HRM 245

- HSE 110, HSE 123, HSE 125, HSE 160, HSE 220, HSE 225, HSE 242
- HUM 115, HUM 120, HUM 130, HUM 160, HUM 180, HUM 211, HUM 212
- 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
- **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 151, 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**, MUS 113, MUS 114, MUS 131, MUS 132, MUS 161, MUS 162, MUS 210, MUS 211, MUS 212, MUS 213, MUS 261, MUS 262
- NET 125, NET 130, NET 225, NET 226, NET 241
- 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 241, OST 242, OST 243, OST 247, OST 248, OST 249, OST 250, OST 281, OST 286
- PED 110, PED 111, PED 113, PED 120, PED 121, PED 122, PED 125, PED 142, PED 147, PED 171, PED 186, PED 219
- **PHI 215**, PHI 230, **PHI 240**
- **PHY 110/PHY 110A, PHY 151, PHY 152, PHY 251, PHY 252**
- POL 110, **POL 120**, POL 210, POL 220
- **PSY 150**, PSY 231, PSY 237, PSY 239, PSY 241, PSY 281
- REL 110, REL 211, REL 212, REL 221
- RUS 111, RUS 112, RUS 211, RUS 212
- SAB 110, SAB 130, SAB 135
- SEC 110
- SGD 111, SGD 112
- **SOC 210**, SOC 213, SOC 220, SOC 225, SOC 240
- SPA 111, SPA 112, SPA 120, SPA 161, SPA 211, SPA 212
- SWK 113
- TRN 110, TRN 120, TRN 140, TRN 145, TRN 180
- WEB 120, 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 PROGRAM .....65 SHC**

## CAREER ORIENTED PROGRAMS

### Accounting Degree

(A25100)

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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

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

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (24 Credit Hours)</b>					
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 220	Intermediate Accounting I	3	2	0	4
BUS 115	Business Law I	3	0	0	3
CIS 110	Introduction to Computers	2	2	0	3
ECO 252	Principles of Macroeconomics	3	0	0	3
<b>OTHER MAJOR HOURS (28 Credit Hours)</b>					
ACC 140	Payroll Accounting	1	2	0	2
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
CTS 130	Spreadsheet	2	2	0	3
<b>Electives</b> (Choose at least 9 Credit Hours)					
ACC 130	Business Income Taxes	2	2	0	3
ACC 149	Introduction to Accounting Spreadsheets	1	2	0	2
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
WBL 111	Work-Based Learning I (and)	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>67</b>

### Accounting Certificate (C25100)

		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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

### Accounting Bookkeeping Certificate (C25100A)

		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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

## Advertising and Graphic Design Degree

(A30100)

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

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

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

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### 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
<b>MAJOR HOURS - CORE COURSES (29 Credit Hours)</b>					
GRD 110	Typography I	2	2	0	3
GRD 121	Drawing Fundamentals I	1	3	0	2
GRD 131	Illustration I	1	3	0	2
GRD 141	Graphic Design I	2	4	0	4
GRD 142	Graphic Design II	2	4	0	4
GRD 151	Computer Design Basics	1	4	0	3
GRD 152	Computer Design Techniques I	1	4	0	3
GRD 241	Graphic Design III	2	4	0	4
GRD 280	Portfolio Design	2	4	0	4

**OTHER MAJOR HOURS (20 Credit Hours)**

BUS 280	REAL Small Business	4	0	0	4
CIS 110	Introduction to Computers	2	2	0	3
GRD 122	Drawing Fundamentals II	1	3	0	2
GRD 285	Client/Media Relations	1	2	0	2
WEB 140	Web Development Tools	2	2	0	3
WEB 214	Social Media	2	2	0	3

**Electives** (Choose at least 3 Credit Hours)

ART 264	Digital Photography I	1	4	0	3
ART 265	Digital Photography II	1	4	0	3
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTS 125	Presentation Graphics	2	2	0	3
GRD 113	History of Graphic Design	3	0	0	3
GRD 167	Photographic Imaging I	1	4	0	3
GRD 265	Digital Print Production	1	4	0	3
GRD 271	Multimedia Design I	1	3	0	2
GRD 272	Multimedia Design II	1	3	0	2
GRD 275	Animation I	1	3	0	2
GRD 281	Design of Advertising	2	0	0	2
MKT 120	Principles of Marketing	3	0	0	3
OST 131	Keyboarding	1	2	0	2
SGD 111	Introduction to SGD	2	3	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
WEB 120	Intro Internet Multimedia	2	2	0	3
WEB 210	Web Design	2	2	0	3

**TOTAL CREDIT HOURS IN DEGREE .....64**

**Advertising and Graphic Design Diploma**  
(D30100)

**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**)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (21 Credit Hours)</b>					
GRD 110	Typography I	2	2	0	3
GRD 121	Drawing Fundamentals I	1	3	0	2
GRD 131	Illustration I	1	3	0	2
GRD 141	Graphic Design I	2	4	0	4
GRD 142	Graphic Design II	2	4	0	4
GRD 151	Computer Design Basics	1	4	0	3
GRD 152	Computer Design Techniques I	1	4	0	3

**OTHER MAJOR HOURS (10 Credit Hours)**

BUS 280	REAL Small Business	4	0	0	4
CIS 110	Introduction to Computers	2	2	0	3

**Electives** (Choose at least 3 Credit Hours)

CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
CTS 125	Presentation Graphics	2	2	0	3
GRD 113	History of Graphic Design	3	0	0	3
GRD 122	Drawing Fundamentals II	1	3	0	2
GRD 167	Photographic Imaging I	1	4	0	3
GRD 271	Multimedia Design I	1	3	0	2
GRD 272	Multimedia Design II	1	3	0	2
GRD 275	Animation I	1	3	0	2
GRD 281	Design of Advertising	1	3	0	2
MKT 120	Principles of Marketing	3	0	0	3
OST 131	Keyboarding	1	2	0	2
SGD 111	Introduction to SGD	2	3	0	3
WEB 120	Intro Internet Multimedia	2	2	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

**TOTAL CREDIT HOURS IN DIPLOMA ..... 37**

### Advertising and Graphic Design Certificate

(C30100)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers	2	2	0	3
CTI 110	Web Pgm, & Db Foundation	2	2	0	3
GRD 121	Drawing Fundamentals I	1	3	0	2
GRD 141	Graphic Design I	2	4	0	4
GRD 151	Computer Design Basics	1	4	0	3
GRD 167	Photographic Imaging I	1	4	0	3

**TOTAL CREDIT HOURS IN CERTIFICATE ..... 18**

### Advertising and Graphic Design - Advertising Layout Certificate

(C30100A)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers	2	2	0	3
GRD 110	Typography I	2	2	0	3
GRD 113	History of Graphic Design	3	0	0	3
GRD 151	Computer Design Basics	1	4	0	3
GRD 152	Computer Design Techniques I	1	4	0	3
GRD 281	Design of Advertising	1	3	0	2

**TOTAL CREDIT HOURS IN CERTIFICATE ..... 17**



### Advertising and Graphic Design - Creative Design Certificate

(C30100B)

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers <b>(or)</b>	2	2	0	3
ART 264	Digital Photography I <b>(and)</b>	0	6	0	3
GRD 110	Typography I	2	2	0	3
GRD 121	Drawing Fundamentals I	1	3	0	2
GRD 131	Illustration I	1	3	0	2
GRD 141	Graphic Design I	2	4	0	4
GRD 151	Computer Design Basics	1	4	0	3

**TOTAL CREDIT HOURS IN CERTIFICATE ..... 17**

### Advertising and Graphic Design - Web Design Certificate

(C30100C)

		Class	Lab	Clinic/Exp	Credit
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
GRD 151	Computer Design Basics	1	4	0	3
GRD 271	Multimedia Design I	1	3	0	2
GRD 275	Animation I	1	3	0	2
WEB 140	Web Development Tools	2	2	0	3
WEB 210	Web Design	2	2	0	3

**TOTAL CREDIT HOURS IN CERTIFICATE ..... 16**

### Advertising and Graphic Design - Multimedia Design Certificate

(C30100D)

		Class	Lab	Clinic/Exp	Credit
GRD 151	Computer Design Basics	1	4	0	3
GRD 271	Multimedia Design I	1	3	0	2
GRD 275	Animation I	1	3	0	2
WEB 120	Intro Internet Multimedia	2	2	0	3
WEB 140	Web Development Tools	2	2	0	3
WEB 214	Social Media	2	2	0	3

**TOTAL CREDIT HOURS IN CERTIFICATE ..... 16**

## Agribusiness Technology Degree (A15100)

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.

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

#### Social/Behavioral Sciences (3 SHC)

- Economics (**ECO 251**)

#### Natural Sciences/Mathematics (4 SHC)

- Biology (**BIO 111**)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (28 Credit Hours)</b>					
AGR 139	Intro to Sustainable Agriculture	3	0	0	3
AGR 140	Agricultural Chemicals	2	2	0	3
AGR 150	Ag-O-Metrics	3	0	0	3
AGR 160	Plant Science	2	2	0	3
AGR 170	Soil Science	2	2	0	3
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
ANS 110	Animal Science	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1
<b>OTHER MAJOR HOURS (21 Credit Hours)</b>					
ACC 120	Principles of Financial Accounting	3	2	0	4
CIS 110	Introduction to Computers	2	2	0	3
WBL 115	Work-Based Learning Seminar I	1	0	0	1

**Other Required Hours** (Choose at least 6 Credit Hours)

AGR 130	Alternative Ag Production	3	0	0	3
AGR 262	Weed ID & Control	2	3	0	3
ANS 130	Poultry Production	2	2	0	3
ANS 150	Animal Health Management	3	0	0	3
ANS 230	Poultry Management	3	0	0	3

**Electives** (Choose at least 7 Credit Hours)

ACC 130	Business Income Taxes	2	2	0	3
ACC 150	Accounting Software Appl	1	2	0	2
BUS 110	Introduction to Business	3	0	0	3
BUS 135	Principles of Supervision	3	0	0	3
BUS 137	Principles of Management	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 217	Employment Law and Regs	3	0	0	3
BUS 220	Purchasing	3	0	0	3
BUS 234	Training and Development	3	0	0	3
BUS 240	Business Ethics	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
WBL 110	World of Work	1	0	0	1

**TOTAL CREDIT HOURS IN DEGREE .....65**

**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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

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

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (32 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (21 Credit Hours)</b>					
AHR 115	Refrigeration Systems	1	3	0	2
AHR 140	All Weather Systems	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
<b>Electives (Choose 9 Credit Hours)</b>					
AHR 133	HVAC Servicing	2	6	0	4
AHR 250	HVAC System Diagnostics	0	4	0	2
BPR 111	Print Reading	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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>68</b>

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

### GENERAL EDUCATION REQUIREMENTS (3 Credit Hours)

#### Communications (3 SHC)

- English Composition (ENG 111)

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

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

### MAJOR HOURS - CORE COURSES (23 Credit Hours)

		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 114	Heat Pump Technology	2	4	0	4
AHR 125	HVACR Electronics	2	2	0	3

### OTHER MAJOR HOURS (11 Credit Hours)

AHR 140	All Weather Systems	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 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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>18</b>

**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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>18</b>

**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 165)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (43 Credit Hours)</b>					
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 (16 Credit Hours)**

BIO 166	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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

- Mathematics (MAT 143, MAT 171)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (20 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (31 Credit Hours)</b>					
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
<b>Electives (Choose 2 Credit Hours)</b>					
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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>66</b>



## 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	9	30	0	19

**TOTAL CREDIT HOURS IN CERTIFICATE ..... 19**

## 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 (A25120)

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.

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

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

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (34 Credit Hours)</b>					
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
<b>Core Subject - General Business Administration</b>					
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
<b>OTHER MAJOR HOURS (16 Credit Hours)</b>					
<b>Business or Entrepreneurship Elective (Choose 1 group)</b>					
<b>Business Elective</b>					
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
<b>Entrepreneurship</b>					
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
<b>Electives (Choose at least 6 Credit Hours)</b>					
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 217	Employment Law & Regulations	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

ECM 210	Introduction to Electronic Commerce	2	2	0	3
ECO 251	Principles of Microeconomics	3	0	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
SPA 120	Spanish for the Workplace	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 DEGREE .....65**

**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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

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

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (34 Credit Hours)</b>					
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
<b>Core Subject - General Business Administration</b>					
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 217	Employment Law & Regulations	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
SPA 120	Spanish for the Workplace	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 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
<b>MAJOR HOURS - CORE COURSES (28 Credit Hours)</b>					
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
<b>Core Subject - General Business Administration</b>					
BUS 121	Business Math	2	2	0	3
BUS 139	Entrepreneurship I	3	0	0	3
<b>OTHER MAJOR HOURS (3 Credit Hours)</b>					
<b>Electives</b> (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 217	Employment Law & Regulations	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
SPA 120	Spanish for the Workplace	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 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**

## Cardiovascular Sonography Degree (A45160)

The Cardiovascular Sonography curriculum provides the individual with the knowledge and skills necessary to acquire, process, and evaluate the human heart and vascular structures. A cardiovascular sonographer uses high frequency sound waves to produce images of the heart and vascular structures.

Course work includes effective communication and patient care skills combined with a knowledge of physics, human anatomy, physiology, and pathology, all of which are essential to obtaining high quality sonographic images.

Graduates may be eligible to apply to the American Registry of Diagnostic Medical Sonographers for examination in physics, cardiovascular physics, vascular physics, and adult echocardiography. Graduates may find employment in hospitals, physicians' offices, mobile services, and educational 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, HUM 211, HUM 212)
- 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 (3 SHC)

- Biology (BIO 271)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (53 Credit Hours)</b>					
BIO 163	Basic Anatomy & Physiology	4	2	0	5
CVS 160	CVS Clinical Ed I	0	4	9	5
CVS 161	CVS Clinical Ed II	0	0	24	8
CVS 162	CVS Clinical Ed III	0	0	15	5
CVS 163	Echo I	3	2	0	4
CVS 164	Echo II	3	2	0	4
CVS 260	CVS Clinical Ed IV	0	0	24	8
CVS 261	CVS Clinical Ed V	0	0	24	8
SON 111	Sonographic Physics	3	3	0	4
SON 250	Vascular Sonography	1	3	0	2
<b>OTHER MAJOR HOURS (8 Credit Hours)</b>					
CVS 165	Intro to Cardiovascular Sonography	1	3	0	2
CVS 277	Cardiovascular Topics	2	0	0	2
SON 273	Advanced Vascular Sonography	2	2	0	3
SON 276	Fetal Echocardiology	1	0	0	1
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>76</b>

## Cardiovascular Sonography Cardiac Diploma (D45160)

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

**Communications (3 SHC)**

- English Composition (ENG 111)

**Natural Sciences/Mathematics (3 SHC)**

- Biology (BIO 271)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (30 Credit Hours)</b>					
BIO 163	Basic Anatomy & Physiology	4	2	0	5
CVS 160	CVS Clinical Ed I	0	4	9	5
CVS 161	CVS Clinical Ed II	0	0	24	8
CVS 163	Echo I	3	2	0	4
CVS 164	Echo II	3	2	0	4
SON 111	Sonographic Physics	3	3	0	4
<b>OTHER MAJOR HOURS (5 Credit Hours)</b>					
CVS 165	Intro to Cardiovascular Sonography	1	3	0	2
CVS 277	Cardiovascular Topics	2	0	0	2
SON 276	Fetal Echocardiology	1	0	0	1
<b>TOTAL CREDIT HOURS IN DIPLOMA .....</b>					<b>41</b>

## Cardiovascular Sonography - Cardiac Certificate (C45160C)

		Class	Lab	Clinic/Exp	Credit
CVS 163	Echo I	3	2	0	4
CVS 164	Echo II	3	2	0	4
CVS 165	Intro to Cardiovascular Sonography	1	3	0	2
CVS 277	Cardiovascular Topics	2	0	0	2
SON 111	Sonographic Physics	3	3	0	4
SON 276	Fetal Echocardiology	1	0	0	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

## Cardiovascular Sonography - Vascular Certificate (C45160V)

		Class	Lab	Clinic/Exp	Credit
CVS 160	CVS Clinical Ed I	0	4	9	5
CVS 277	Cardiovascular Topics	2	0	0	2
SON 111	Sonographic Physics	3	3	0	4
SON 250	Vascular Sonography	1	3	0	2
SON 273	Advanced Vascular Sonography	2	2	0	3
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

## 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

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

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (22 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (27 Credit Hours)</b>					
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
CJC 233	Correctional Law	3	0	0	3
CJC 241	Community-Based Corrections	3	0	0	3
PSY 231	Forensic Psychology	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
<b>MAJOR HOURS - CORE COURSES (15 Credit Hours)</b>					
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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**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
<b>MAJOR HOURS - CORE COURSES (31 Credit Hours)</b>					
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
<b>Work-Based Learning (Choose 1 group - 2 SHC)</b>					
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
<b>OTHER MAJOR HOURS (21 Credit Hours)</b>					
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
<b>Electives (Choose at least 7 Credit Hours)</b>					
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
SPA 120	Spanish for the Workplace	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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### 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
<b>MAJOR HOURS - CORE COURSES (16 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (34 Credit Hours)</b>					
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
NET 125	Networking Basics	1	4	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
<b>Electives (Choose at least 3 Credit Hours)</b>					
ACC 120	Principles of Financial Accounting	3	2	0	4
BUS 115	Business Law I	3	0	0	3
CCT 220	Forensic Accounting	3	3	0	4
CCT 285	Trends in Cyber Crime	2	2	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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>65</b>

## Early Childhood Education Degree (A55220)

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.

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

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### 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
<b>MAJOR HOURS - CORE COURSES (35 Credit Hours)</b>					
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 at least 5 Credit Hours)

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
PSY 150	General Psychology	3	0	0	3
SOC 213	Sociology of the Family	3	0	0	3
SPA 111	Elementary Spanish I	3	0	0	3
SPA 112	Elementary Spanish II	3	0	0	3

**TOTAL CREDIT HOURS IN DEGREE** ..... **68**

**Early Childhood Education Diploma**

(D55220)

**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**)

**MAJOR HOURS - CORE COURSES (32 Credit Hours)**

		Class	Lab	Clinic/Exp	Credit
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
<b>MAJOR HOURS (7 SHC)</b>					
EDU 119	Introduction to Early Childhood Education	4	0	0	4
EDU 146	Child Guidance	3	0	0	3
<b>OTHER MAJOR HOURS (9 SHC) Choose three courses:</b>					
EDU 144	Child Development I ( <i>or</i> )	3	0	0	3
EDU 145	Child Development II	3	0	0	3
EDU 131	Child, Family, and Community ( <i>or</i> )	3	0	0	3
EDU 271	Educational Technology	2	2	0	3
EDU 153	Health, Safety, and Nutrition ( <i>or</i> )	3	0	0	3
EDU 280	Language & Literacy Experiences	3	0	0	3
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

### 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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

### 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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>18</b>



## Electrical Systems Technology Degree (A35130)

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.

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

- Mathematics (**MAT 143, MAT 152, MAT 171**)
- Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (28 Credit Hours)</b>					
ELC 112	DC/AC Electricity	3	6	0	5
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
<b>Concentration Requirements (Electrical Systems)</b>					
ELC 115	Industrial Wiring	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 215	Electrical Maintenance	2	3	0	3
ELC 220	Photovoltaic Systems Technology	2	3	0	3
<b>OTHER MAJOR HOURS (24 Credit Hours)</b>					
CIS 110	Introduction to Computers	2	2	0	3
ELN 131	Analog Electronics I	3	3	0	4
HYD 110	Hydraulics/Pneumatics I	2	3	0	3

**Electives I** (Choose at least 3 Credit Hours)

DFT 151	CAD I	2	3	0	3
MEC 130	Mechanisms	2	2	0	3

**Electives II** (Choose 1 group:)

ELN 132	Analog Electronics II ( <b>or</b> )	3	3	0	4
MAC 114	Introduction to Metrology ( <b>and</b> )	2	0	0	2
MAC 132	Blueprint Reading/MACH II	1	2	0	2

**Electives III** (Choose 1 group:)

ELN 133	Digital Electronics ( <b>or</b> )	3	3	0	4
HYD 121	Hydraulics/Pneumatics II ( <b>and</b> )	1	3	0	2
HYD 210	Advanced Hydraulics	1	3	0	2

**Electives IV** (Choose at least 3 Credit Hours)

ALT 120	Renewable Energy Tech	2	2	0	3
ATR 112	Intro to Automation	2	3	0	3
BPR 111	Print Reading	1	2	0	2
BUS 280	REAL Small Business	4	0	0	4
CTI 120	Network and Sec Foundation	2	2	0	3
DFT 152	CAD II	2	3	0	3
ELC 213	Instrumentation	3	2	0	4
ELC 221	Adv PV Systems Designs	2	3	0	3
ELN 231	Industrial Controls	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 121	Intro to CNC	2	0	0	2
MAC 122	CNC Turning	1	3	0	2
MEC 130	Mechanisms	2	2	0	3
MEC 145	Mfg Materials I	2	3	0	3
MEC 151	Mechanical Mfg Systems	1	3	0	2
MEC 180	Engineering Materials	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

**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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

- Mathematics (**MAT 143, MAT 152, MAT 171**)
- Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (28 Credit Hours)</b>					
ELC 112	DC/AC Electricity	3	6	0	5
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
<b>Concentration Requirements (Electrical Systems)</b>					
ELC 115	Industrial Wiring	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 215	Electrical Maintenance	2	3	0	3
ELC 220	Photovoltaic Systems Technology	2	3	0	3
<b>OTHER MAJOR HOURS (24 Credit Hours)</b>					
CIS 110	Introduction to Computers	2	2	0	3
ELN 131	Analog Electronics I	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
MAC 114	Introduction to Metrology	2	0	0	2
MAC 132	Blueprint Reading/MACH II	1	2	0	2
MEC 130	Mechanisms	2	2	0	3
MEC 151	Mechanical Mfg Systems	1	3	0	2
<b>Electives (Choose at least 1 Credit Hour)</b>					
ATR 112	Intro to Automation	2	3	0	3
CTI 120	Network and Sec Foundation	2	2	0	3
DFT 151	CAD I	2	3	0	3
ELC 213	Instrumentation	3	2	0	4
ELC 221	Adv PV Systems Designs	2	3	0	3
ELN 132	Analog Electronics II	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
ELN 231	Industrial Controls	2	3	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 121	Intro to CNC	2	0	0	2
MAC 122	CNC Turning	1	3	0	2
MEC 145	Mfg Materials I	2	3	0	3
MEC 180	Engineering Materials	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

**TOTAL CREDIT HOURS IN DEGREE ..... 67**

## 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 143, MAT 152, MAT 171**)
- Physics (**PHY 110/PHY 110A**)

	Class	Lab	Clinic/Exp	Credit	
<b>MAJOR HOURS - CORE COURSES (28 Credit Hours)</b>					
ELC 112	DC/AC Electricity	3	6	0	5
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
<b>Concentration Requirements (Electrical Systems)</b>					
ELC 115	Industrial Wiring	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 215	Electrical Maintenance	2	3	0	3
ELC 220	Photovoltaic Systems Technology	2	3	0	3
<b>OTHER MAJOR HOURS (12 Credit Hours)</b>					
ELN 131	Semiconductor Applications	3	3	0	4
ELN 132	Linear IC Applications	3	3	0	4
ELN 133	Digital Electronics	3	3	0	4
<b>TOTAL CREDIT HOURS IN DIPLOMA .....</b>				<b>46</b>	

## 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 112	DC/AC Electricity	3	6	0	5
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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>				<b>18</b>	

**Electrical Systems Technology -  
Industrial and Photovoltaic Wiring Certificate**  
(C35130B)

		Class	Lab	Clinic/Exp	Credit
ELC 117	Motors and Controls	2	6	0	4
ELC 115	Industrial Wiring	2	6	0	4
ELC 118	National Electrical Code	1	2	0	2
ELC 215	Electrical Maintenance	2	3	0	3
ELC 220	Photovoltaic Systems Technology	2	3	0	3
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**Electrical Systems Technology -  
Hydro-Mechanical Certificate**  
(C35130C)

		Class	Lab	Clinic/Exp	Credit
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
MAC 114	Introduction to Metrology	2	0	0	2
MAC 132	Blueprint Reading/MACH II	1	2	0	2
MEC 130	Mechanisms	2	2	0	3
MEC 151	Mechanical Mfg Systems	1	3	0	2
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**Emergency Medical Science Degree**  
(A45340)

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 emergency 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.

**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, HUM 211, HUM-212)
- 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 165)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (52 Credit Hours)</b>					
BIO 166	Anatomy and Physiology II	3	3	0	4
EMS 110	EMT	6	6	0	8
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	1	3	0	2
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	2	3	0	3
EMS 285	EMS Capstone	1	3	0	2
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
<b>OTHER MAJOR HOURS (5 Credit Hours)</b>					
CIS 110	Introduction to Computers	2	2	0	3
<b>EMS Elective (Choose one course)</b>					
EMS 125	EMS Instructor Methodology	1	2	0	2
EMS 235	EMS Management	2	0	0	2
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>73</b>

## Emergency Medical Science Degree / Paramedic Bridge

(A45340B)

**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, HUM 211, HUM-212)
- 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 165)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (52 Credit Hours)</b>					
BIO 166	Anatomy and Physiology II	3	3	0	4
EMS 110	EMT-Basic	6	6	0	8
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	1	3	0	2
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	2	3	0	3
MED 121	Medical Terminology I	3	0	0	3
MED 122	Medical Terminology II	3	0	0	3
<b>Bridge Elective (Choose one course)</b>					
EMS 280	EMS Bridging Course	2	2	0	3
EMS 285	EMS Capstone	1	3	0	2
<b>OTHER MAJOR HOURS (5 Credit Hours)</b>					
CIS 110	Introduction to Computers	2	2	0	3
<b>EMS Elective (Choose one course)</b>					
EMS 125	EMS Instructor Methodology	1	2	0	2
EMS 235	EMS Management	2	0	0	2
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>73</b>

## 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 are 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, 113**, or **ENG 114**)

##### 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
<b>CIS 110</b>	Introduction to Computers	2	2	0	3
<b>Chemistry/Hazmat I</b> (Choose one course)					
<b>CHM 151</b>	General Chemistry I	3	3	0	4
<b>PHY 151</b>	College Physics I	3	2	0	4
<b>Chemistry/Hazmat II</b> (Choose one course)					
<b>CHM 152</b>	General Chemistry II	3	3	0	4
<b>PHY 152</b>	College Physics II	3	2	0	4
<b>Communication</b> (Choose one course)					
<b>COM 110</b>	Introduction to Communication	3	0	0	3
<b>COM 231</b>	Public Speaking	3	0	0	3
<b>TOTAL CREDIT HOURS Offered by SPCC .....</b>					<b>29</b>



## 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### 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 (25 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
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
<b>Electives</b> (Choose at least 6 Credit Hours)					
DDT 110	Developmental Disabilities	3	0	0	3
DDT 230	Supported Employment	3	0	0	3
DDT 240	Aging Lifelong Disability	3	0	0	3
GRO 250	Aging Policies Programs & Services	2	0	0	2
HSE 242	Family Systems	3	0	0	3
SAB 130	Addictive Behaviors	3	0	0	3
SAB 135	Addictive Process	3	0	0	3
SPA 120	Spanish for the Workplace	3	0	0	3
<b>TOTAL CREDIT HOURS IN DEGREE</b> .....					<b>65</b>

## 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
<b>MAJOR HOURS - CORE COURSES (17 Credit Hours)</b>					
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
<b>PSY 150</b>	General Psychology	3	0	0	3
<b>OTHER MAJOR HOURS (15 Credit Hours)</b>					
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
<b>TOTAL CREDIT HOURS IN DIPLOMA</b> .....					<b>38</b>

**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
<b>PSY 150</b>	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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

**Human Services Technology - Developmental Disabilities Certificate**  
(C45380D)

		Class	Lab	Clinic/Exp	Credit
HSE 123	Interviewing Techniques	2	2	0	3
HSE 210	Human Services Issues	2	0	0	2
DDT 110	Developmental Disabilities	3	0	0	3
DDT 230	Supported Employment	3	0	0	3
DDT 240	Aging Lifelong Disability	3	0	0	3
SWK 113	Working with Diversity	3	0	0	3
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

**Human Services Technology - Gerontology Certificate**  
(C45380G)

		Class	Lab	Clinic/Exp	Credit
HSE 210	Human Services Issues	2	0	0	2
DDT 110	Developmental Disabilities	3	0	0	3
DDT 240	Aging Lifelong Disability	3	0	0	3
GRO 120	Gerontology	3	0	0	3
GRO 250	Aging Policies Programs & Services	2	0	0	2
SWK 113	Working with Diversity	3	0	0	3
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

## Industrial Systems Technology Degree (A50240)

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.

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

- Mathematics (**MAT 143, MAT 152, MAT 171**)
- Physics (**PHY 110/PHY 110A**)

### MAJOR HOURS - CORE COURSES (34 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
BPR 111	Print Reading	1	2	0	2
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
MNT 110	Intro to Maintenance Procedures	1	3	0	2
WLD 112	Basic Welding Processes	1	3	0	2
<b>Electrical Elective (Choose one course:)</b>					
ELC 111	Introduction to Electricity	2	2	0	3
ELC 112	DC/AC Electricity	3	6	0	5
<b>Concentration Requirements (Industrial Systems)</b>					
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

**OTHER MAJOR HOURS (23 Credit Hours)**

CIS 110	Introduction to Computers	2	2	0	3
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**Machining / Industrial Electives (Take one group)**

**Group I Machining**

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

**Group II Industrial**

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
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
MNT 111	Maintenance Practices	2	2	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 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 212	Inert Gas Welding	1	3	0	2

**TOTAL CREDIT HOURS IN DEGREE ..... 72**

## 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

- Mathematics (**MAT 143, MAT 152, MAT 171**)
- Physics (**PHY 110/PHY 110A**)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (34 Credit Hours)</b>					
BPR 111	Print Reading	1	2	0	2
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
MNT 110	Intro to Maintenance Procedures	1	3	0	2
WLD 112	Basic Welding Processes	1	3	0	2
<b>Electrical Elective (Choose one course:)</b>					
ELC 111	Introduction to Electricity	2	2	0	3
ELC 112	DC/AC Electricity	3	6	0	5
<b>Concentration Requirements (Industrial Systems)</b>					
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
<b>OTHER MAJOR HOURS (23 Credit Hours)</b>					
CIS 110	Introduction to Computers	2	2	0	3
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
<b>Electives (Choose at least 4 Credit Hours)</b>					
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
<b>TOTAL CREDIT HOURS IN DEGREE</b>		<b>72</b>			

### Industrial Systems Technology - Machining Certificate

(C50240A)

		Class	Lab	Clinic/Exp	Credit
BPR 111	Blueprint Reading	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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

### Industrial Systems Technology - Maintenance Certificate

(C50240M)

		Class	Lab	Clinic/Exp	Credit
BPR 111	Blueprint Reading	1	2	0	2
HYD 110	Hydraulics/Pneumatics I	2	3	0	3
ELC 215	Electrical Maintenance	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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

### Industrial Systems Technology - Welding Certificate

(C50240W)

		Class	Lab	Clinic/Exp	Credit
BPR 111	Blueprint Reading	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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

## 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 Degree

(A25590)

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 will 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

Systems Security A25590E

Healthcare Informatics A25590B

Web Administration and Design A25590F

IT Business Support A25590C

Game and Simulation Programming A25590G

Network Telecommunications A25590D

Requirements for each follow.



## Information Technology - Information Systems Degree (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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### 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
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 ( <b>or</b> )	2	3	0	3
CTS 288	Professional Practices in IT ( <b>or</b> )	2	2	0	3
WBL 110	World of Work ( <b>and</b> )	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

**Electives II** (Choose at least 6 Credit Hours)

BUS 280	REAL Small Business	4	0	0	4
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
CSC 151	JAVA Programming	2	3	0	3
CTS 125	Presentation Graphics	2	2	0	3
CTS 130	Spreadsheet	2	2	0	3
GRD 151	Computer Design Basics	1	4	0	3
GRD 271	Multimedia Design I	1	3	0	2
GRD 275	Animation I	1	3	0	2
HBI 110	Issues and Trends in HBI	3	0	0	3
HBI 113	Survey of Med Insurance	3	0	0	3
NET 125	Networking Basics	1	4	0	3
NET 130	Convergence Concepts	2	2	0	3
NET 225	Routing & Switching	1	4	0	3
NET 226	Routing & Switching II	1	4	0	3
NET 241	Introduction to VOIP	2	3	0	3
OST 131	Keyboarding	1	2	0	2
OST 136	Word Processing	2	2	0	3
OST 149	Medical legal Issues	3	0	0	3
OST 236	Advanced Word/Information Processing	2	2	0	3
SGD 111	Introduction to SGD	2	3	0	3
SGD 112	SGD Design	2	3	0	3
WEB 120	Intro Internet Multimedia	2	2	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

**TOTAL CREDIT HOURS IN DEGREE** ..... **66**

## Information Technology - Healthcare Informatics Degree

(A25590B)

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**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
<b>MAJOR HOURS - CORE COURSES (18 Credit Hours)</b>					
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
HBI 110	Issues and Trends in HBI	3	0	0	3
HBI 113	Survey of Med Insurance	3	0	0	3
<b>OTHER MAJOR HOURS (33 Credit Hours)</b>					
CTS 120	Hardware/Software Support	2	3	0	3
CTS 130	Spreadsheet	2	2	0	3
CTS 155	Tech Support Functions	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 130	Windows Single User	2	2	0	3
NOS 230	Windows Administration I	2	2	0	3
OST 149	Medical legal Issues	3	0	0	3
SEC 110	Security Concepts	2	2	0	3
<b>Electives (Choose one group)</b>					
CIS 115	Intro to Prog & Logic ( <b>or</b> )	2	3	0	3
CTS 288	Professional Practices in IT ( <b>or</b> )	2	2	0	3
WBL 110	World of Work ( <b>and</b> )	1	0	0	1
WBL 111	Work-Based Learning I ( <b>and</b> )	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>66</b>

**Information Technology - IT Business Support Degree**  
(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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**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
<b>MAJOR HOURS - CORE COURSES (18 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (33 Credit Hours)</b>					
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
<b>Electives (Choose one group)</b>					
CIS 115	Intro to Prog & Logic ( <b>or</b> )	2	3	0	3
CTS 288	Professional Practices in IT ( <b>or</b> )	2	2	0	3
WBL 110	World of Work ( <b>and</b> )	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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>66</b>

## Information Technology - Network Telecommunications (A25590D)

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### 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
NET 130	Convergence Concepts	2	2	0	3
NET 241	Introduction to VOIP	2	3	0	3

### OTHER MAJOR HOURS (33 Credit Hours)

CTS 120	Hardware/Software Support	2	3	0	3
CTS 155	Tech Support Functions	2	2	0	3
CTS 289	Sustem Support Project	1	4	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
SEC 110	Security Concepts	2	2	0	3

**Electives (Choose one group)**

CIS 115	Intro to Prog & Logic ( <b>or</b> )	2	3	0	3
CTS 288	Professional Practices in IT ( <b>or</b> )	2	2	0	3
WBL 110	World of Work ( <b>and</b> )	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 - Systems Security

(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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**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
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 - Web Administration and Design**  
(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, HUM 211, HUM 212)
- 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, POL 210, POL 220)
- Psychology (PSY 150)
- Sociology (SOC 210, SOC 213, SOC 220, SOC 225)

**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
<b>MAJOR HOURS - CORE COURSES (18 Credit Hours)</b>					
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 (33 Credit Hours)**

CSC 151	JAVA Programming	2	3	0	3
DBA 110	Database Concepts	2	3	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 120	Intro Internet Multimedia	2	2	0	3
WEB 140	Web Development Tools	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** ..... 66

## Information Technology - Game and Simulation Programming

(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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**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
<b>MAJOR HOURS - CORE COURSES (18 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (33 Credit Hours)</b>					
CTS 120	Hardware/Software Support	2	3	0	3
CTS 125	Presentation Graphics	2	2	0	3
CTS 155	Tech Support Functions	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
<b>Electives (Choose one group)</b>					
CIS 115	Intro to Prog & Logic <b>(or)</b>	2	3	0	3
CTS 288	Professional Practices in IT <b>(or)</b>	2	2	0	3
WBL 110	World of Work <b>(and)</b>	1	0	0	1
WBL 111	Work-Based Learning I <b>(and)</b>	0	0	10	1
WBL 115	Work-Based Learning Seminar I	1	0	0	1
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>66</b>

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

		Class	Lab	Clinic/Exp	Credit
CIS 110	Introduction to Computers <b>(or)</b>	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 <b>(or)</b>	2	2	0	3
NET 125	Networking Basics	1	4	0	3
WBL 110	World of Work <b>(or)</b>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**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 <b>(or)</b>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**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 <b>(or)</b>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**Information Technology  
Network Telecommunications Certificate**  
(C25590D)

		Class	Lab	Clinic/Exp	Credit
CTI 120	Network & Sec Foundation	2	2	0	3
NET 130	Convergence Concepts	2	2	0	3
NET 225	Routing & Switching	1	4	0	3
NET 226	Routing & Switching II	1	4	0	3
NET 241	Introduction to VOIP	2	3	0	3
WBL 110	World of Work <b>(or)</b>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**Information Technology  
Healthcare Informatics Certificate**  
(C25590E)

		Class	Lab	Clinic/Exp	Credit
DBA 110	Database Concepts	2	3	0	3
DBA 120	Database Programming I	2	2	0	3
HBI 110	Issues and Trends in HBI	3	0	0	3
HBI 113	Survey of Med Insurance	3	0	0	3
OST 149	Medical legal Issues	3	0	0	3
WBL 110	World of Work <i>(or)</i>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**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 <i>(or)</i>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**Information Technology  
Web Administration and Design Certificate**  
(C25590G)

		Class	Lab	Clinic/Exp	Credit
CTI 110	Web, Pgm, & Db Foundation	2	2	0	3
WEB 120	Intro Internet Multimedia	2	2	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
WBL 110	World of Work <i>(or)</i>	1	0	0	1
WBL 111	Work-Based Learning I	0	0	10	1
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

## 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.

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**Natural Sciences/Mathematics (4 SHC)**

- Mathematics (MAT 171)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (22 Credit Hours)</b>					
DFT 151	CAD I	2	3	0	3
DFT 154	Intro Solid Modeling	2	3	0	3
EGR 251	Statics	2	2	0	3
EGR 252	Strength of Materials	2	2	0	3
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 151	Mechanical Mfg Systems	1	3	0	2

**Electives (Choose at least 5 Credit Hours)**

ATR 112	Intro to Automation	2	3	0	3
BPR 111	Print Reading	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
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 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 ..... 69**

**Mechanical Engineering Technology - Mechatronics Certificate**

(C40320E)

		Class	Lab	Clinic/Exp	Credit
EGR 251	Statics	2	2	0	3
EGR 252	Strength of Materials	2	2	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

**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 (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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

#### Natural Sciences/Mathematics (4 SHC)

- Mathematics (**MAT 171**)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (37 Credit Hours)</b>					
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 112	DC/AC Electricity	3	6	0	5
ELC 117	Motors and Controls	2	6	0	4
ELC 128	Introduction to PLC	2	3	0	3
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 (16 Credit Hours)**

DFT 154	Intro Solid Modeling	2	3	0	3
MAC 121	Introduction to CNC	2	0	0	2
MAC 122	CNC Turning	1	3	0	2
MEC 151	Mechanical Mfg Systems	1	3	0	2
MEC 180	Engineering Materials	2	3	0	3

**Electives** (Choose at least 4 Credit Hours)

BPR 111	Print Reading	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** ..... **69**

**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, HUM 211, HUM 212)
- 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
<b>MAJOR HOURS - CORE COURSES (33 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (20 Credit Hours)</b>					
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
<b>Electives (Choose at least 3 Credit Hours)</b>					
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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>68</b>

## 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
<b>MAJOR HOURS - CORE COURSES (30 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (10 Credit Hours)</b>					
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
<b>TOTAL CREDIT HOURS IN DIPLOMA .....</b>					<b>46</b>

**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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

**Medical Office Administration**  
(A25310)

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 -  
General Medical Office Administration**  
(A25310A)

**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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**Natural Sciences/Mathematics (4 SHC)**

- Biology (BIO 165)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (36 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (14 Credit Hours)</b>					
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
<b>Electives (Choose at least 4 Credit Hours)</b>					
ACC 120	Principles of Financial Accounting	3	2	0	4
BIO 166	Anatomy and Physiology II	3	3	0	4
CTS 125	Presentation Graphics	2	2	0	3
CTS 130	Spreadsheet	2	2	0	3
HBI 110	Issues and Trends in HBI	3	0	0	3
HBI 113	Survey of Med Insurance	3	0	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
SPA 120	Spanish for the Workplace	3	0	0	3
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-  
Medical Billing and Coding**  
(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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**Natural Sciences/Mathematics (4 SHC)**

- Biology (BIO 165)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (36 Credit Hours)</b>					
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 166	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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>66</b>

### 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 165)

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (30 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (7 Credit Hours)</b>					
BIO 166	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
<b>TOTAL CREDIT HOURS IN DIPLOMA .....</b>					<b>44</b>

### 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
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>17</b>

## 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](http://www.caahep.org), 1361 Park Street, Clearwater, FL 33756, or call 727-210-2350 for questions about the accreditation.

### 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

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

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

### MAJOR HOURS - CORE COURSES (54 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
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
<b>OTHER MAJOR HOURS (6 Credit Hours)</b>					
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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>76</b>

### 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
<b>MAJOR HOURS - CORE COURSES (16 Credit Hours)</b>					
MSK 110	Musculoskeletal Sonography I	2	2	3	4
MSK 111	Musculoskeletal Sonography II	1	2	3	4
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
<b>TOTAL CREDIT HOURS IN CERTIFICATE.....</b>					<b>16</b>

### 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
<b>MAJOR HOURS - CORE COURSES (13 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (3 Credit Hours)</b>					
CIS 110	Introduction to Computers	2	2	0	3
<b>TOTAL CREDIT HOURS IN CERTIFICATE .....</b>					<b>16</b>

### 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](http://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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**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
<b>MAJOR HOURS - CORE COURSES (23 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (26 Credit Hours)</b>					
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
<b>Electives (Choose at least 3 Credit Hours)</b>					
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
<b>TOTAL CREDIT HOURS IN DEGREE .....</b>					<b>64</b>



## 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 DIPLOMA ..... 37**

## 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
<b>MAJOR HOURS - CORE COURSES (30 Credit Hours)</b>					
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
<b>OTHER MAJOR HOURS (5 Credit Hours)</b>					
BIO 165	Anatomy and Physiology I	3	3	0	4
BIO 166	Anatomy and Physiology II	3	0	0	4
<b>TOTAL CREDIT HOURS IN DIPLOMA .....</b>					<b>44</b>

## 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, HUM 211, HUM 212)
- 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, POL 210, POL 220**)
- Psychology (**PSY 150**)
- Sociology (**SOC 210, SOC 213, SOC 220, SOC 225**)

**Mathematics (3 SHC)** Choose one course:

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

		Class	Lab	Clinic/Exp	Credit
<b>MAJOR HOURS - CORE COURSES (9 Credit Hours)</b>					
SGD 111	Introduction to SGD	2	3	0	3
SGD 112	SGD Design	2	3	0	3
SGD 113	SGD Programming (CPCC)	2	3	0	3
<b>OTHER MAJOR HOURS (9 Credit Hours)</b>					
<b>Electives</b> (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
<b>TOTAL CREDIT HOURS Offered by SPCC .....</b>					<b>36</b>

**Therapeutic Massage Degree**

(A45750)

The Therapeutic Massage curriculum prepares graduates to work in direct client care settings to provide manipulation, methodical pressure, friction and kneading of the body for maintaining wellness or treating alterations in wellness throughout the lifespan.

Courses will include content in normal human anatomy and physiology, therapeutic massage, ethical/legal issues, business practices, nutrition and psychology.

Employment opportunities include hospitals/rehabilitation centers, health departments, home health, medical offices, nursing homes, spas/health/sports clubs, and private practice. Graduates may be eligible to take the Massage and Bodywork Licensing Exam.

The Therapeutic Massage 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 (17 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, HUM 211, HUM 212)
- 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 (5 SHC)**

- Biology (BIO 163)

**MAJOR HOURS - CORE COURSES (42 Credit Hours)**

		Class	Lab	Clinic/Exp	Credit
BUS 152	Human Relations	3	0	0	3
MTH 110	Fundamentals of Massage	6	9	3	10
MTH 120	Therapeutic Massage Applications	6	9	3	10
MTH 125	Ethics of Massage	2	0	0	2
MTH 130	Therapeutic Massage Mgmt	2	0	0	2
MTH 210	Adv Skills of Massage	4	9	3	8
MTH 220	Outcome-Based Massage	4	6	3	7

**OTHER MAJOR HOURS (8 Credit Hours)**

CIS 110	Introduction to Computers	2	2	0	3
MED 121	Medical Terminology I	3	0	0	3
MTH 121	Clinical Supplement I	0	0	3	1
WBL 111	Work-Based Learning I	0	0	10	1

**1TOTAL CREDIT HOURS IN DEGREE ..... 67**

## Therapeutic Massage Diploma

(D45750)

### GENERAL EDUCATION REQUIREMENTS (8 Credit Hours)

#### Communications (3 SHC)

- English Composition (ENG 111)

#### Natural Sciences/Mathematics (5 SHC)

- Biology (BIO 163)

#### MAJOR HOURS - CORE COURSES (24 Credit Hours)

		Class	Lab	Clinic/Exp	Credit
MTH 110	Fundamentals of Massage	6	9	3	10
MTH 120	Therapeutic Massage Applications	6	9	3	10
MTH 125	Ethics of Massage	2	0	0	2
MTH 130	Therapeutic Massage Mgmt	2	0	0	2

#### OTHER MAJOR HOURS (7 Credit Hours)

CIS 110	Introduction to Computers	2	2	0	3
MED 121	Medical Terminology I	3	0	0	3
MTH 121	Clinical Supplement I	0	0	3	1

**TOTAL CREDIT HOURS IN DIPLOMA ..... 39**

## 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)

#### MAJOR HOURS - CORE COURSES (18 Credit Hours)

		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 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**