

# **Academic Programs**



## Academic Programs

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All students working toward an associate degree must register for one of the programs listed in this section.

Two-year general studies or pre-baccalaureate programs lead to the Associate of Arts or Associate of Science degree. Two-year technical education curricula lead to either the Associate in Applied Science, the Associate in Applied Business, or Associate of Technical Studies.

### General Studies Programs

#### Developmental Courses

Developmental courses are taken in addition to any degree program and may not be used to satisfy any basic degree requirements. These developmental courses are: ENGL 1000 (co-req), MATH 1106, MATH 1116, MATH 1118, and MATH 1119 (co-req).

#### Associate of Arts and Associate of Science Degrees

The Associate of Arts and the Associate of Science degrees allow each student the opportunity to pursue programs culminating in two years of formal education. While the programs provide for a core of courses required of all students, they have enough flexibility to enable students to pursue a selection of courses based upon their own areas of interest and their educational goals. Students should select electives with their academic advisor's assistance.

The Associate of Arts and the Associate of Science degrees also provide the prospective student with a firm base from which to pursue a baccalaureate degree at a four-year college or university. Courses resemble those typically offered during the first two years at an accredited baccalaureate institution. The programs have been designed to permit a broad curricular sampling in the areas of communication, social sciences, humanities, and the sciences. The degrees have also been structured to permit students the possibility of selecting courses which suit their own individual needs.

Students must meet the entrance requirements of the college to which they intend to transfer. Since requirements vary among the colleges, students are advised to consult with the appropriate officers of the transfer institution. Acceptance and evaluation of credits lies exclusively within the jurisdiction of the colleges to which students transfer. Advisors will assist any student who plans to transfer to another college or university.

### General Studies Requirements

Every student pursuing an Associate of Arts or Associate of Science degree program at Southern State Community College shall select studies in specific areas of discipline. The specification of such studies is not a designation of specific courses; rather it allows the student freedom to select, from several alternatives, those experiences most appropriate for him/her. The credit distribution which follows is based on the recommended standards of the Ohio Department of Higher Education.

### Transfer Module (OTM) and Institutional Transfer Pathways (OGTP)

The Ohio Department of Higher Education developed a statewide process which facilitates the transfer of students within Ohio state colleges and universities. The transfer policy, referred to as the Transfer Module, allows students who meet the Transfer Module general education requirements of their home institutions to automatically meet the transfer module requirements of the colleges or universities to which they transfer, even though some requirements of the institutions may vary. Students should note, however, that after transfer, they may be required to meet additional general education requirements that are not included in the Transfer Module. The Transfer Module is made up of a specific subset or the entire set of a college or university's general education requirements in English composition, mathematics, humanities, fine arts, social science, behavioral science, physical science, natural science and interdisciplinary course work. The study of foreign language is also encouraged. The requirements contain 36 semester hours of course credits, as specified by individual colleges and universities.

The Ohio Guaranteed Transfer Pathways (OGTPs) are designed to provide a clear path to degree completion for students pursuing associate degrees who plan to transfer to an Ohio public university to complete their bachelor's degree. The OGTPs constitute an agreement between public community colleges and universities confirming that community college courses meet major preparation requirements, including the Transfer Module, and will be counted and applied toward the bachelor's degree. Students still must meet all university program admission requirements, which in some cases may be competitive. The Ohio Guaranteed Transfer Pathways available to Southern State Students is found on the Ohio Department of Higher Education OGTP webpage.

Under the guidelines of the Transfer Module policy, once transfer students are admitted into their receiving institutions, they are subject to the same regulations,

including residency requirements, as are native students. They also will be given the same class standing and other privileges as native students. Students should communicate, as early as possible in their academic careers, with the various colleges and universities to which they plan to transfer. Early communication and subsequent, early decisions about majors and prospective receiving institutions, enables students to plan their academic pathway to their transfer institutions. Southern State cannot be responsible if the student takes courses out of sequence or substitutes courses for those listed in the guaranteed program.

## Transfer Module Requirements

The Transfer Module at Southern State Community College (effective Autumn Quarter 1991) consists of **36 semester credit hours** of introductory courses in: English Composition, Mathematics, Arts/Humanities, Social and Behavioral Sciences, and Natural and Physical Sciences. Students should follow these directions in selecting courses for the Transfer Module:

1. Select minimum requirements from introductory courses following the instructions provided in each section.
2. Complete the required minimum hours of the Transfer Module from the remaining courses on this list.

**NOTE:** Be sure to check with an academic advisor to assure the courses selected are the most appropriate for the major and the transfer college or university selected.

## WRITTEN & ORAL COMMUNICATIONS (9 semester hours)

ENGL 1101 English Composition I (3)  
 ENGL 1102 English Composition II (3)  
 COMM 1115 Fundamentals of Effective Speech (3)  
 (This course is in addition to English Composition and does not replace nor can it be substituted for written composition courses.)

## MATHEMATICS

(Select a minimum of 3 semester hours)

MATH 1124 Finite Math (3)  
 MATH 1141 College Algebra (4)  
 MATH 1142 College Trigonometry (4)  
 MATH 1160 Statistical Concepts (3)  
 MATH 2221 Calculus I (5)  
 MATH 2222 Calculus II (5)  
 MATH 2223 Calculus III (4)  
 MATH 2250 Linear Algebra (4)  
 MATH 2281 Introductory Statistics (3)

## ARTS/HUMANITIES

(Select 6 semester hours from at least two areas)

### English

ENGL 2201 Introduction to Literature (3)  
 ENGL 2202 The Great American Novel (1925-Present) (3)  
 ENGL 2207 Women's Literature (3)  
 ENGL 2217 Readings in Early British Literature (3)  
 ENGL 2218 Readings in Later British Literature (3)  
 ENGL 2230 American Literature to 1865 (3)  
 ENGL 2235 American Literature after 1865 (3)  
 ENGL 2236 Contemporary World Literature: The Novel (1945 to present) (3)  
 ENGL 2238 Young Adult Literature (3)  
 ENGL 2240 Introduction to Films (3)  
 ENGL 2241 Film History (3)  
 ENGL 2246 Classical and World Mythology (3)  
 ENGL 2247 Critical & Cultural Approaches to the Fairytale (3)

### Philosophy

PHIL 1101 Introduction to World Philosophy (3)  
 PHIL 1102 Introduction to Western Philosophy (3)  
 PHIL 1107 Ethics (3)

### Fine Arts

FNAR 1104 Introduction to the Arts (3)  
 FNAR 1111 History of Art I (3)  
 FNAR 1112 History of Art II (3)  
 FNAR 1116 Music Appreciation I (3)  
 FNAR 1117 Music Appreciation II (3)



**Theater**

THEA 1121 Introduction to the Theater (3)

**SOCIAL SCIENCE****(Select 6 semester hours in at least two areas)****Economics**

ECON 2205 Principles of Microeconomics (3)

ECON 2206 Principles of Macroeconomics (3)

**History**

HIST 1110 American History I (3)

HIST 1111 American History II (3)

HIST 1130 African American History (3)

HIST 1140 American Women's History (3)

HIST 1151 Introduction to Western Civilization I (3)

HIST 1152 Introduction to Western Civilization II (3)

**Political Science**

PSCI 1104 American Government - The American Democracy I (3)

PSCI 1105 American Government - The American Democracy II (3)

**Psychology**

PSYC 1110 Principles of Psychology (3)

**Sociology**

SOC 1107 Introduction to Diversity (3)

SOC 1170 Introduction to Sociology (3)

**NATURAL AND PHYSICAL SCIENCES****(Select 6 semester hours with at least one course a laboratory course)****Biology**

BIOL 1310/1311 Principles of Biology I/Lab I (4/1)

BIOL 1320/1321 Principles of Biology II/Lab II (4/1)

BIOL 1040/1041 Human Biology I/Lab I (3/1)

BIOL 1050 Human Biology II (3)

BIOL 1060 Environmental Science (3)

BIOL 1510/1511 Anatomy &amp; Physiology I/Lab I (3/1)

BIOL 1520/1521 Anatomy &amp; Physiology II/Lab II (3/1)

BIOL 2300/2301 Microbiology/Lab (3/1)

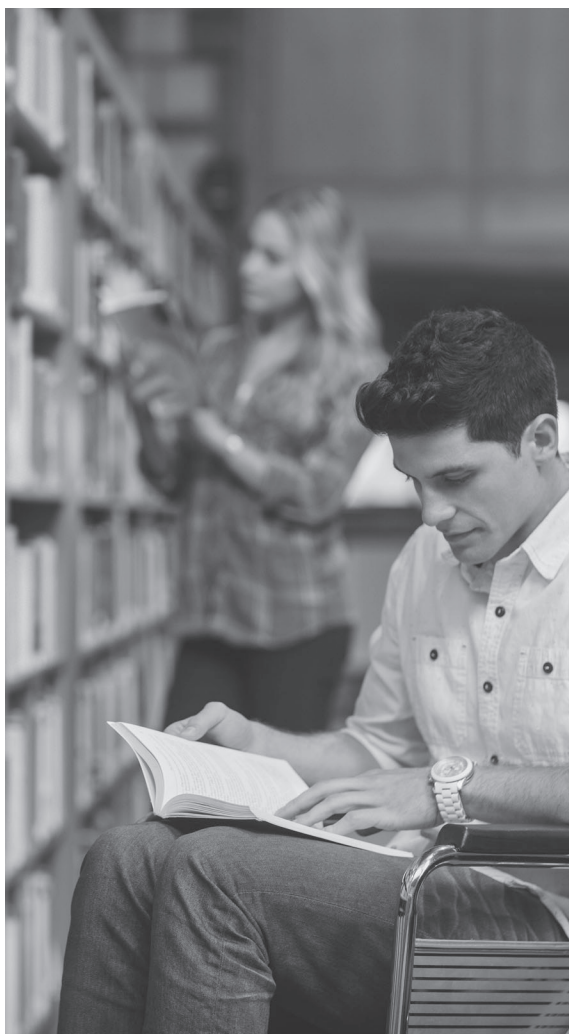
**Chemistry**

CHEM 1151/1161 First-Year Chemistry I/Chemistry Lab (4/1)

CHEM 1152/1162 First-Year Chemistry II/Chemistry Lab (4/1)

CHEM 2201/2211 Organic Chemistry I/Organic Chemistry Lab (4/1)

CHEM 2202/2212 Organic Chemistry II/Organic Chemistry Lab (4/1)

**Physical Science**

PHYS 1101 Introduction to Physical Science (3)

PHYS 1104 Physical Geology (4)

PHYS 1130 Astronomy (3)

PHYS 2201/2211 General Physics I/Physics Lab (4/1)

PHYS 2202/2212 General Physics II/Physics Lab (4/1)

PHYS 2221/2231 College Physics for Scientists &amp; Engineers I/Lab (4/1)

PHYS 2222/2232 College Physics for Scientists &amp; Engineers II/Lab (4/1)

## Technical Programs

Technical education is designed to provide thorough career training at the technician level. The two-year associate degree programs expose students to intensive practical experience and skill development in the field they choose to study. The certificate programs are aimed at giving students a compact but thorough knowledge in a specified field. Technical offerings are tailored to meet the career interests and employment needs of persons in the communities served by Southern State Community College.

These degrees are awarded for successful completion of program requirements in a specialized degree program aimed at preparing a student for entry into a specific occupation.

### Associate of Applied Business

- 429 Business Management - Real Estate Broker
- 429D Accounting

### Associate of Applied Science

- 430 Nursing
- 435 Human & Social Services
- 435A Human & Social Services:  
Chemical Dependency
- 455B Computer Technology
- 460C Mechanical Design Technology
- 470A Electro-Mechanical Engineering Technology
- 470G Engineering: Aviation Maintenance
- 485 Early Childhood Education
- 486 Paraprofessional Education
- 492 Medical Assisting
- 496A Law Enforcement

### Associate of Technical Studies

- 410 Associate of Technical Studies

**It is important for students to plan their program with the help and approval of a faculty advisor.**

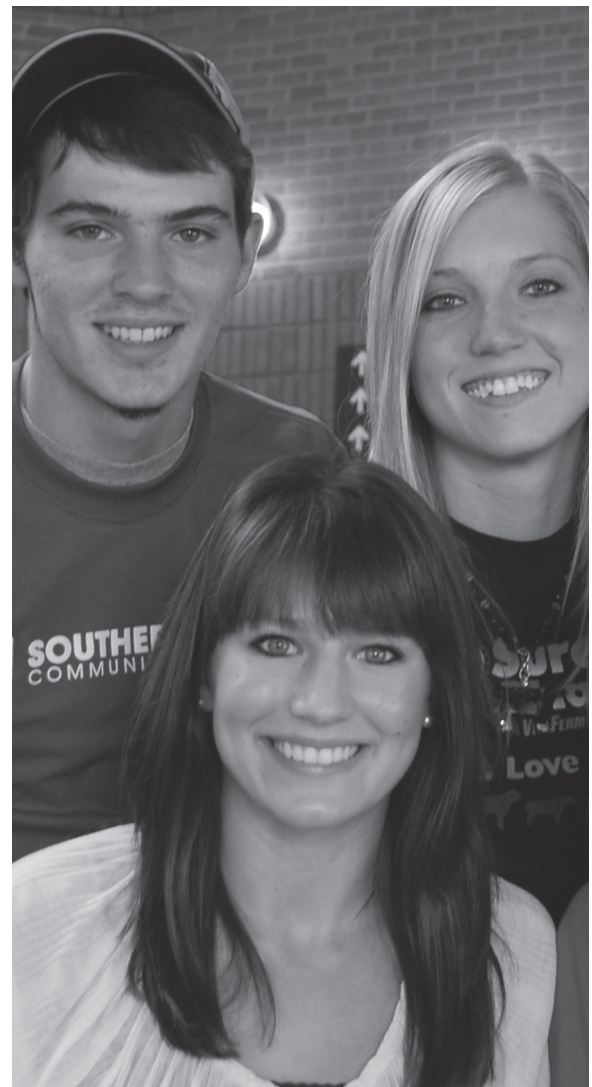
## Certificate Programs

These certificates are awarded for successful completion of the certificate requirements designed to give students a compact but thorough knowledge for these fields:

- 429G Accounting
- 432 Practical Nursing
- 470I Aviation Airframe
- 470J Aviation Powerplant
- 492B Phlebotomy
- 492E Medical Assistant Technology

## Career Enhancement Certificates

- Real Estate
- Microsoft Office Specialist



# Associate of Arts Degree

Two-year Degree Program

Total Credits: 60

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## General Education Distribution Requirements

### Associate of Arts Degree

To receive an Associate of Arts Degree, a student must complete course work that satisfies the following guidelines:

1. The SSCC Transfer Module (36 semester credit hours) must be satisfied.
2. A minimum total of 60 non-developmental education semester credit hours must be successfully completed.
3. Course work must be distributed in the following manner. In all cases, courses taken to satisfy the Transfer Module may be included in these totals.

#### A. Written & Oral Communications

9 semester hours

- ENGL 1101
- ENGL 1102
- COMM 1115

#### B. Social Sciences

9 semester hours (Courses from at least 2 areas)

- Economics
- Sociology
- Psychology
- History
- Political Science

#### C. Science and Mathematics

9 semester hours (at least one course from category 1 and two courses from category 2)

- Category 1: Mathematics
- Category 2: Biology, Chemistry, Physics

#### D. Arts and Humanities

12 semester hours (Courses from at least two areas)

- Literature
- Film
- Fine Arts
- Philosophy
- Theater
- Foreign Language

#### E. Electives

At least 21 semester hours

**60 total credit hours for degree completion**

Students with specific baccalaureate goals should meet the Associate of Arts requirements with electives that are approved by the advisor at the receiving institution.

# Associate of Arts Degree

## Concentration Pathways

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### Associate of Arts – Concentration Pathways

The concentrations listed below are academic pathways within the Associate of Arts Degree. *For example, a student who is planning to transfer to a four-year institution for Business Management may be interested in pursuing a concentration in Business Management.* Students must meet all requirements for the Associate of Arts Degree and Transfer Module to qualify for a concentration.

#### • Health and Physical Education

- HPER 1195 Fitness & Wellness for Life  
 HPER At least six credit hours from the following courses:
- HPER 1101 Introduction to Sport and Kinesiology
  - HPER 1102 Introduction to Athletic Training
  - HPER 2234 Personal Health
  - HPER 2295 Principles of Health-Related Fitness

#### • Business Management

- ACCT 1101 Principles of Financial Accounting  
 ACCT 1102 Principles of Managerial Accounting  
 BADM 2204 Principles of Marketing  
 BADM 2206 Principles of Mgmt & Org. Behavior  
 BADM 2251 Business Law I  
 BADM 2272 Business Communications

#### • Real Estate

- REST 1171 Principles of Real Estate  
 REST 1173 Real Estate Law  
 REST 2275 Real Estate Finance & Appraisal

#### • Theatre

- THEA 1121 Introduction to Theatre  
*Choose one of the following:*  
 - THEA 1131, THEA 1132,  
 THEA 2231  
*Choose one of the following:*  
 - THEA 1101, THEA 1104,  
 THEA 2204  
*Choose one of the following:*  
 - THEA 1140, THEA 1150,  
 THEA 2220

# Associate of Science Degree

Two-year Degree Program

Total Credits: 60

## Associate of Science Degree

To receive an Associate of Science Degree, a student must complete course work that satisfies the following guidelines:

1. The SSCC Transfer Module (36 semester credit hours) must be satisfied.
2. A total of 60 non-developmental education semester credit hours of must be successfully completed.
3. Course work must be distributed in the following manner. In all cases, courses taken to satisfy the Transfer Module may be included in these totals.

### A. Written and Oral Communications

9 semester hours

- ENGL 1101
- ENGL 1102
- COMM 1115

### B. Social Sciences

9 semester hours (Courses from at least 2 areas)

- Economics
- Sociology
- Psychology
- History
- Political Science

### C. Science and Mathematics

14 semester hours Courses from 1 and 2 (at least one course from category 1 and two courses from category 2)

1. Mathematics - 1141, 1142, 2221, 2222, 2223, 2230

Other math courses will not satisfy this requirement.

2. Science - Biology - 1040/1041, 1050, 1310/1311, 1320/1321, 1510/1511, 1520/1521, 2300/2301

Chemistry - 1151/1161, 1152/1162, 2201/2211, 2202/2212

Physical Science - 2201/2211, 2202/2212, 2221/2231, 2222/2232

Other science courses will not satisfy this requirement.

### D. Arts and Humanities

9 semester hours (Courses from at least two areas)

- Literature
- Film
- Fine Arts
- Philosophy
- Theater
- Foreign Language

### E. Electives - At least 19 semester hours

**60 total credit hours for degree completion**

Students with specific baccalaureate goals should meet the Associate of Science requirements with electives that are approved by an advisor at the receiving institution.



# Associate of Science Degree

## Concentration Pathways

### Associate of Science – Concentration Pathways

The concentrations listed below are academic focus pathways within the Associate of Science Degree. For example, a student who is planning to transfer to a four-year institution for Engineering may be interested in pursuing a concentration in Mathematics. Students must meet all requirements for the Associate of Science Degree and Transfer Module to qualify for a concentration.

#### • Forensic Biotechnology

*Recommended for students interested in Crime Scene Investigation, Law Enforcement, and Criminal Investigation Laboratory Science*

BTNL 1110	Intro to Biotechnology & Laboratory Science
BTNL 1120	Intermediate Biotechnology & Laboratory Science
CJUS 2233	Criminal Investigation
CJUS 2245	Crime Scene Investigation

#### • Molecular Biotechnology

*Recommended for students interested in Premedicine, Pre dentistry, Preveterinary, Biology, or work in the Biotechnology field*

BTNL 1110	Intro to Biotechnology & Laboratory Science
BTNL 1120	Intermediate Biotechnology & Laboratory Science
BTNL 2220	Advanced Biotechnology & Laboratory Science

#### • Mathematics

MATH 2222	Calculus II
MATH 2223	Calculus III
MATH 2230	Differential Equations
MATH 2250	Linear Algebra

# Technical Studies - 410

## Associate of Technical Study Degree

Total Credits: 60-73

The Associate of Technical Study (ATS) program offers the student the opportunity to design, with faculty guidance, an individualized course of study to suit specific career-related goals. Course work for ATS degrees may include portions of existing Southern State programs, skills already learned, life experience and applicable credits earned at other schools. Requirements for an individual student's program usually fit into traditional program offerings.

While meeting each student's personal career objectives, the ATS program satisfies the employer as well. The program is particularly appropriate for individuals who are employed and have been targeted for positions with additional responsibility. It also provides an option for both employer and employee when existing job positions have requirements which are not adequately matched with current college curricula. The individualized philosophy of the program draws courses from two or more technical areas and attempts to fulfill local employment needs one student at a time. Furthermore, this multidisciplinary approach will prepare graduates for future transitions which may occur in the workplace.

### Admissions Procedures

Individuals interested in pursuing the Associate of Technical Study degree will begin the application procedure by first being directed to a faculty advisor.

Secondly, the student will complete and submit the Southern State Community College Application for Admission and the Associate of Technical Study Application. On the ATS Application form, the student will be asked to justify acceptance into the program and to demonstrate sound rationale for why the ATS degree is more appropriate.

Next, the student will be assigned a faculty advisor and an ATS planning committee will be established. The faculty advisor, along with the planning committee, will oversee the selection of courses and assure that standards will be maintained.

Each student's progress will be monitored, and any deviation from the established program must be approved by the Vice President of Academic Affairs.

### Graduation Requirements

1. Graduates of the ATS program will adhere to the same requirements as any technical program at Southern State with regard to communications, mathematics, social science/humanities and natural sciences.
2. Semester hour requirements will be established individually within limits of 60 to 73.

3. A grade point average of 2.00 or above is required for graduation.
4. At least 20 semester hours of classroom instruction of each student's course work must be completed at Southern State.
5. Particular courses may be required by the planning committee, based upon the student's background and career objectives.

### Associate of Technical Study: Type A Program

This program enables the student to receive college credit for qualified industry training and to choose courses from two or more existing Southern State associate degree programs and thereby design a personalized curriculum. All ATS Type A program curriculums must be approved by the Vice President of Academic Affairs.

### Associate of Technical Study: Type B Program

This program helps the college to develop associate degree programs in partnership with professional organizations and business/industrial firms with staff development programs by equating their training activity to a block of college credit.

A college review committee will examine the training program offered by an organization in order to determine if it qualifies for inclusion.

When implemented, each program accommodates students transferring from an educational program which lies outside the traditional collegial domain. The degree gives recognition to the training of the professionals while enabling them to experience the broadening, liberalizing, and enriching components of a college education. For more information concerning the ATS Type B program, contact your faculty advisor.

Currently, cooperative arrangements can be incorporated for ATS Type B degrees in the following:

### Industrial Training

Southern State has worked with numerous industries to develop a program for skill areas used in industry from existing curriculum, in whole or in part. These completed programs can provide a significant amount of credit toward an associate degree.

The basic ingredients of these programs and their basic framework can be adapted to other trade or skill areas to meet other companies' needs.

Total Credits: 60-73

# Business Management - 429

Associate of Applied Business Degree

Total Credits: 60

**Nature of the Profession:** Managerial personnel oversee, direct and plan the work of others as well as determine business policy. Entry-level positions are either supervisory or trainee in nature. Supervisors are the largest group and they direct workers' activities in such areas as sales, production, accounting, and purchasing.

**Related Job Titles:** Retail Department Manager; Purchasing Manager; Restaurant, Hotel, or Motel Manager; Credit Manager; and Manager Trainee.

COURSES		CREDITS
<b>Fall Semester</b>		
ACCT 1101	Principles of Financial Accounting	3
BADM 2206	Principles of Management & Organizational Behavior	3
BADM 2251	Business Law I	3
CSCI 2218	Excel	3
ENGL 1101	English Composition I	3
<b>Spring Semester</b>		
ACCT 1102	Principles of Managerial Accounting	3
BADM 2252	Business Law II	3
BADM 2272	Business Communications	3
ENGL 1102	English Composition II	3
MATH 1124	Finite Math <u>OR</u> higher	3
<b>Fall Semester</b>		
BADM 2204	Principles of Marketing	3
BADM 2220	Human Resources Management	3
ECON 2205	Principles of Microeconomics	3
MATH 1160	Statistical Concepts OR	
MATH 2281	Statistics	3
-----	Arts & Humanities Elective	3
<b>Spring Semester</b>		
BADM 2208	Supervision & Leadership	3
BADM 2216	Business Ethics	3
BADM 2222	Business Finance	3
BADM 2290	Problems in Business	3
ECON 2206	Principles of Macroeconomics	3
<b>Program Total</b>		<b>60</b>

# Business Management | Real Estate Broker - 429

Associate of Applied Business Degree

Total Credits: 60

<b>Nature of the Profession:</b>	<b>COURSES</b>	<b>CREDITS</b>	
<p>Managerial personnel oversee, direct and plan the work of others as well as determine business policy. Entry-level positions are either supervisory or trainee in nature. Supervisors are the largest group and they direct workers' activities in such areas as sales, production, accounting, and purchasing.</p> <p><b>Related Job Titles:</b> Real Estate Agent; Real Estate Broker; Retail Department Manager; Purchasing Manager; Restaurant, Hotel, or Motel Manager; Credit Manager; and Manager Trainee.</p>	<b>Fall Semester   First Year</b>		
	ACCT 1101	Principles of Financial Accounting	3
	REST 1171	Principles of Real Estate	3
	REST 1173	Real Estate Law	3
	REST 2275	Real Estate Finance and Appraisal	3
	ENGL 1101	English Composition I	3
	<b>Spring Semester   First Year</b>		
	ACCT 1102	Principles of Managerial Accounting	3
	CSCI 2218	Excel	3
	BADM 2272	Business Communications	3
ENGL 1102	English Composition II	3	
MATH - - -	*MATH 1115 or MATH 1124 or higher	3	
<b>Fall Semester   Second Year</b>			
BADM 2204	Principles of Marketing	3	
BADM 2220	Human Resources Management	3	
BADM 2251	Business Law I	3	
ECON 2205	Principles of Microeconomics	3	
-----	Arts & Humanities Elective	3	
<b>Spring Semester   Second Year</b>			
BADM 2208	Supervision & Leadership	3	
BADM 2216	Business Ethics	3	
BADM 2222	Business Finance	3	
BADM 2290	Problems in Business	3	
ECON 2206	Principles of Macroeconomics	3	
<b>Program Total</b>		<b>60</b>	

\*MATH 1124 or higher is required for most transfer institutions.

**\*\*After completion of REST 1171, REST 1173, & REST 2275, students can sit for the Ohio Real Estate Salesperson Licensure Exam.**

# Accounting Major - 429D

Associate of Applied Business Degree

Total Credits: 60

**Nature of the Profession:** Accounting personnel compile and analyze business records. They also prepare financial reports, ensuring accuracy and compliance with legal regulations. The major opportunity fields are auditing, public accounting, managerial accounting, and government accounting.

**Related Job Titles:** Accountant, Auditor, Budget Analyst, Credit Analyst, Financial Analyst

COURSES		CREDITS
<b>Fall Semester</b>		
ACCT 1101	Principles of Financial Accounting	3
BADM 2251	Business Law I	3
CSCI 2218	Excel	3
ENGL 1101	English Composition I	3
-----	Arts & Humanities Elective	3
<b>Spring Semester</b>		
ACCT 1102	Principles of Managerial Accounting	3
ACCT 2230	Computerized Accounting - Quickbooks	3
BADM 2252	Business Law II	3
ENGL 1102	English Composition II	3
MATH 1124	Finite Math	3
<b>Fall Semester</b>		
ACCT 2201	Intermediate Accounting I	3
ACCT 2206	Managerial Cost Accounting	3
ACCT 2210	Tax Accounting	3
BADM 2208	Supervision & Leadership	3
ECON 2205	Principles of Microeconomics	3
<b>Spring Semester</b>		
ACCT 2202	Intermediate Accounting II	3
ACCT 2221	Auditing	3
BADM 2222	Business Finance	3
BADM 2290	Problems in Business	3
ECON 2206	Principles of Macroeconomics	3
<b>Program Total</b>		<b>60</b>

# Accounting Certificate - 429G

One-Year Technical Program

Total Credits: 30

**Nature of the Profession:** The Accounting One-Year Certificate will introduce you to the basics of accounting and prepare you for employment with a small business or an entry level accounting position. You will have the opportunity to earn user certifications in Intuit Quickbooks and Microsoft Excel.

**Related Job Titles:** Accounting Clerk, Bookkeeping, and Tax Preparers.

COURSES		CREDITS
<b>Fall Semester</b>		
ACCT 1101	Principles of Financial Accounting	3
ACCT 2210	Tax Accounting	3
BADM 2251	Business Law I	3
CSCI 2218	Excel	3
ENGL 1101	English Composition I	3
<b>Spring Semester</b>		
ACCT 1102	Principles of Managerial Accounting	3
ACCT 2230	Computerized Accounting - Quickbooks	3
MATH 1115*	Math for Business & Social Sciences OR	
MATH 1124	Finite Math or higher	3
ECON 2205	Principles of Microeconomics	3
ENGL 1102	English Composition II	3
<b>Program Total</b>		<b>30</b>

\*MATH 1124 is required for the Associate Degree and most transfer institutions.

After completion of CSCI 2218, students can sit for the Excel Licensure Exam.

After completion of ACCT 2230, students can sit for the Intuit Quickbooks Licensure Exam.

Completion of the Accounting One-Year Technical Certificate is stackable into the Accounting Associate Degree.

# Nursing - 430

Associate of Applied Science Degree

Total Credits: 65

**Nature of the Profession:** The registered nurse (RN) provides patient care due to illness or desire to maintain health. The RN scope of practice is defined by the Ohio Nurse Practice Act. RNs practice nursing in a wide range of settings including hospitals, schools, work sites, and patient's homes. Multiple advanced degrees are offered at various universities.

**Program Design:** The program is designed to be completed in four semesters. It is a daytime program, with primarily face-to-face classes. Accepted students enter with a specific cohort, and continue within that cohort until graduation. All lecture, lab, simulation, and clinical experiences are integrated into each semester, and must be completed successfully to progress in the program. NRSNG courses must be completed in the order listed in the outline.

Non-nursing courses may be completed prior to entry into the program or during the required semester of the nursing program. Please note this may reduce the amount of Financial Aid you receive each term.

**Admission Criteria:** Admission to the nursing program is a competitive and selective process. The Associate Degree Nursing Program Information Packet describes the application process and documentation required to support entry into the ADN Program. The Nursing Transition Program Information Packet is available to guide practicing LPNs to apply to the Associate Degree Nursing Program. The Associate Degree Nursing Program and Nursing Transition Program Information Packets are available at all Southern State campuses or at:  
[www.sccc.edu/academics/associate/nursing.shtml](http://www.sccc.edu/academics/associate/nursing.shtml)

*Incomplete applications will not be considered. It is the responsibility of the applicant to be sure the required information is submitted to the nursing office.*

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*Other recommended courses are: CHEM 1124, COMM 1115, any course with FNAR prefix. HPER 2261, MAST 1115, MATH 1160 and PSYC 1110. If preparing for BSN completion, please contact school of choice for program requirements.*

COURSES		CREDITS
<b>Fall Semester</b>		
BIOL 1510	Anatomy & Physiology I	3
BIOL 1511	Anatomy & Physiology Lab I	1
MATH 1135	Allied Health Mathematics	3
NRSNG 1050	Intro. to Nursing Practice	2
NRSNG 1200	Pathophysiology	2
NRSNG 1500	Nursing Concepts I: Normal Findings	5
<b>Spring Semester</b>		
BIOL 1520	Anatomy & Physiology II	3
BIOL 1521	Anatomy & Physiology Lab II	1
ENGL 1101	English Composition I	3
NRSNG 1300	Pharmacology	2
NRSNG 1600	Nursing Concepts II: Wellness & Basic Chronic Conditions	6
PSYC 1111	Life Span Human Dev.	3
<b>Fall Semester</b>		
ENGL 1102	English Composition II	3
NRSNG 2300	Concepts of Maternal and Child Nursing Care	5
NRSNG 2500	Nursing Concepts III: Acute & Chronic Conditions	5
SOCI 1170	Introduction to Sociology	3
<b>Spring Semester</b>		
BIOL 2300	Microbiology	3
BIOL 2301	Microbiology Lab	1
NRSNG 1107	Ethics in Nursing Practice	2
NRSNG 2400	Mental Health Nursing	2
NRSNG 2600	Nursing Concepts IV: Complex & Higher Acuity Conditions	4
NRSNG 2800	Nursing Capstone	3
<b>Program Total</b>		<b>65</b>

# Practical Nursing - 432

## Certificate Program

Total Credits: 35

**Nature of the Profession:** The licensed practical nurse (LPN) provides patient care due to illness or desire to maintain health. The LPN scope of practice is defined by the Ohio Nurse Practice Act. The LPN provides care at the direction of a licensed physician, dentist, podiatrist, optometrist, chiropractor, or registered nurse. The majority of LPNs work in long-term care and community organizations.

**Program Design:** The Practical Nursing Program is a three semester certificate program combining lecture, lab, and clinical experiences designed to prepare the graduate to be eligible to complete the licensure examination (NCLEX-PN) to become a Licensed Practical Nurse. The program has full approval of the Ohio Board of Nursing.

**Admission Criteria:** Admission to the nursing programs is a competitive and selective process. The Practical Nursing Program Information Packet describes the application process and documentation required to support entry into the Practical Nursing Program. The Practical Nursing Program Information Packet is available at all Southern State campuses or at [www.sccc.edu/academics/certificate/practical-nursing.shtml](http://www.sccc.edu/academics/certificate/practical-nursing.shtml)

Non-nursing courses may be completed prior to entry into the program or during the required semester of the nursing program. Please note this may reduce the amount of Financial Aid you receive each term.

**Incomplete applications will not be considered. It is the responsibility of the applicant to be sure the required information is submitted to the nursing office.**

Other recommended courses include: BIOL 2300/2301, CHEM 1124, COMM 1115, ENGL 1102, and MAST 1115, and PSYC 1111.

COURSES		CREDITS
<b>Spring Semester</b>		
BIOL 1510	Anatomy and Physiology I	3
BIOL 1511	Anatomy & Physiology Lab I	1
MATH 1135	Allied Health Mathematics	3
PRAC 1200	Pathophysiology	2
PRAC 1500	Practical Nursing Concepts I	5
<b>Summer Semester</b>		
BIOL 1520	Anatomy and Physiology II	3
BIOL 1521	Anatomy and Physiology Lab II	1
PRAC 1300	Pharmacology	2
PRAC 1600	Practical Nursing Concepts II	5
<b>Fall Semester</b>		
ENGL 1101	English Composition I	3
PRAC 1700	Practical Nursing Concepts III	7
<b>Program Total</b>		<b>35</b>



# Human and Social Services - 435

Associate of Applied Science Degree

Total Credits: 64

**Nature of the Profession:** Human services worker is a generic term for people with various job titles who may play a variety of roles in community service and agency settings. They may assist clients in obtaining benefits and services or assess the needs and establish the eligibility of clients for services. They may organize and lead group activities, assist clients in need of emotional support or crisis intervention, or they may monitor and keep case records on clients and report progress to supervisors. Additionally, human services workers may administer programs such as food banks, emergency fuel programs, or work with senior centers or charities.

Human services workers generally work under the direction of a qualified professional--many times a social worker, professional counselor, program director, or psychologist. The amount of responsibility and supervision they are given varies a great deal, as do actual work duties. Some are on their own most of the time and have little direct supervision; others work under close supervision.

**Related Job Titles:** Social Work Assistant, Social Services Technician, Assistant Counselor, Family Services Worker, Case Extender, Case Manager, Victim Advocate Associate, MR/DD Adult Services Worker, Gerontology Aide, Residential Treatment Facility Associate, Intake Specialist, Job Coach, Income Maintenance Worker, Senior Center Director, Outreach Worker.

**Program Design:** The program provides a foundation in social and behavioral sciences which will prepare students for challenging work in a variety of social service settings. Entry level courses in the helping professions such as psychology, cultural diversity, sociology, social problems, and interviewing techniques will be offered. Specialty classes will include substance abuse, case management, counseling, crisis intervention, mental retardation, and gerontology. The program has been designed to meet the course work standards of the State of Ohio Counselor, Social Worker, and Marriage and Family Therapist Board certification as Social Work Assistant. Individuals will be provided opportunities for personal and professional growth through knowledge-based learning, experiential processes, community involvement and 480 hours of practical experience under direct supervision of professionals in local agencies.

Persons pursuing a career in human services should recognize that to be successful, they must be emotionally stable, creative, and flexible. Human services professionals must be able to work effectively with diverse groups of people and individuals with a wide variety of ages, racial and cultural backgrounds, and life situations.

A grade of "C" (2.00) or better is required in all courses for graduation. Any required course in which a grade below a "C" is received must be repeated. Life experience credit may not be used to fulfill graduation requirements in this program.

COURSES		CREDITS
<b>Fall Semester</b>		
HSSR 1140	Racial & Cultural Diversity in the Helping Professions	3
HSSR 1110	Intro to Social Services & Ethical Procedures	3
ENGL 1101	English Composition I	3
PSYC 1110	Principles of Psychology	3
MATH 1115	Math for the Business and Social Sciences	3
SOCI 2232	The Criminal Justice System	3
<b>Spring Semester</b>		
HSSR 1105	Survey of Substance Abuse	3
HSSR 1135	Affective Education & Group Process	3
HSSR 1150	Case Management Writing in the Helping Professions	3
ENGL 1102	English Composition II	3
PSYC 2207	Human Growth & Dev.	3
<b>Fall Semester</b>		
HSSR 2271	Human Services Practicum I	3
HSSR 2265	Diagnosis of Mental and Emotional Disorders	3
HSSR 2210	Counseling Theories	3
BIOL 1040	Human Biology I	3
BIOL 1041	Human Biology Lab I	1
SOCI 1170	Introduction to Sociology	3
<b>Spring Semester</b>		
HSSR 2272	Human Services Practicum II	3
HSSR 2211	Counseling Techniques	3
HSSR 2280	Crisis Intervention and Trauma Informed Treatment	3
SOCI 1150	Marriage & Family	3
COMM 1115	Fundamentals of Effective Speech	3
<b>Program Total</b>		<b>64</b>

# Chemical Dependency Major - 435A

Human and Social Services - Associate of Applied Science Degree

Total Credits: 64

## Nature of of the Profession:

The Human and Social Services Chemical Dependency Major is designed to prepare students for careers in case management and counseling of chemically dependent individuals and their families. Students are prepared for employment in entry level positions in a variety of settings including therapeutic communities, rehabilitation centers, inpatient facilities, residential programs, outpatient clinics, mental health centers, detox units, and other organizations focusing on addictions treatment, education, or prevention. They may organize and lead group activities, assist clients in need of emotional support or crisis intervention, or they may monitor and keep case records on clients and report progress to supervisors. The amount of responsibility and supervision they are given varies a great deal, as do actual job duties.

**Related Job Titles:** Case Manager, Caseworker, Chemical Dependency Counselor, Social Work Assistant, Home Visitor, Residential Treatment Facility Associate, Addictions Educator, Intake Specialist.

## Program Design:

The program provides students with a foundation in social and behavioral sciences, a focused study in addictions, and career-oriented clinical/practicum experiences leading to the development of competent addictions counselors. The curriculum places strong emphasis on application of knowledge to problems and practices in the fields of human services and chemical dependency treatment, intervention, and prevention. Courses in the program address basic human services and counseling skills, pharmacology and addictions theory, as well as a selection of liberal arts topics to provide a broad understanding of the human experience. Academic and clinical application coursework is built around the knowledge, skills, and competencies necessary to help clients move from life threatening addictions to recovery. Classes focus on the following: psychological and sociological understanding of human interactions; addictive behaviors and various treatments utilized with chemically dependent persons; pharmacological effects of alcohol and other chemicals; understanding the various needs of special populations and their differing help seeking behaviors; ethical issues including confidentiality, appropriate boundaries, and dual relationships; and counseling theory and techniques.

Program requirements address the competencies identified by Ohio Department of Mental Health and Addictions Services (OMHAS). Graduates will have completed the necessary coursework requirements for eligibility as a Licensed Chemical Dependency Counselor II, a credential awarded by the Ohio Chemical Dependency Professionals Board. Additional requirements for LCDC II include a period of supervised experience, some of which students are expected to complete after graduation from the program. Program graduates planning to work as chemical dependency counselors must apply for and receive this credential in order to practice legally in the State of Ohio. In addition, the program meets the educational requirements of the State of Ohio Counselor, Social Worker, and Marriage and Family Therapist Board certification of Social Work Assistant.

A grade of "C" (2.00) or better is required in all courses for graduation. Any required course in which a grade below "C" is earned must be repeated. Students completing the Chemical Dependency Major must complete their entire practicum experience at a chemical dependency counseling/treatment facility. Life experience credit may not be used to fulfill graduation requirements in this program.

## COURSES

### Fall Semester

HSSR 1110	Intro to Social Services & Ethical Procedures	3
SOCI 2232	The Criminal Justice System	3
ENGL 1101	English Composition I	3
PSYC 1110	Principles of Psychology	3
MATH 1115	Math for Business and Social Sciences	3
SOCI 1107	Introduction to Diversity	3

### Spring Semester

HSSR 1105	Survey of Substance Abuse	3
HSSR 1135	Affective Educ. & Group Process	3
HSSR 1150	Case Management & Writing in the Helping Professions	3
ENGL 1102	English Composition II	3
PSYC 1111	Life Span and Human Development	3

### Fall Semester

HSSR 2271	Human Services Practicum I	3
HSSR 2265	Diagnosis of Mental and Emotional Disorders	3
HSSR 2210	Counseling Theories	3
SOCI 1170	Introduction to Sociology	3
BIOL 1040	Human Biology I	3
BIOL 1041	Human Biology Lab II	1

### Spring Semester

HSSR 2272	Human Services Practicum II	3
HSSR 2211	Counseling Techniques	3
HSSR 2216	Prevention, Diagnosis, and Treatment of Chem. Dependency	3
PSYC 2225	Psychology of Addiction and Family Services	3
COMM 1115	Fundamentals of Effective Speech	3

### Program Total

64

# Computer Technology - 455B

Associate of Applied Science Degree

Total Credits: 63/64

**Nature of the Profession:** This program focuses on the design of technological information systems, including computing systems, as solutions to business and communications support needs. The program includes instruction in the principles of computer hardware and software components, programming, application support and human interface design.

**Related Job Titles:** Consultant, Desktop Support Technician, Hardware Support Technician, Help Desk Technician, Junior Analyst, Network Administrator, Network Technician, Server Administrator, Software Support Technician, Technical Salesman, Technical Writer and Testing Technician.

COURSES		CREDITS
<b>Fall Semester   First Year</b>		
CSCI 2246	IT Fundamentals	3
ENGL 1101	English Composition I	3
CSCI 1150	IT Essentials	3
CSCI 2275	Professionalism	1
-----	General Elective	3
PSYC 1110	Principles of Psychology	3
<b>Spring Semester   First Year</b>		
PHIL 1107	Ethics	3
-----	Student Pick 1 ( <i>Class 1 of 3</i> )	3
-----	Student Pick 2 ( <i>Class 1 of 3</i> )	3
MATH 1120	Technical Math <b>OR</b>	3
MATH 1141	College Algebra	4
ENGL 1102	English Composition II	3
<b>Fall Semester   Second Year</b>		
-----	Student Pick 1 ( <i>2 of 3</i> )	3
-----	Student Pick 2 ( <i>2 of 3</i> )	3
CSCI 1155	Linux	3
PHYS 2201	General Physics	4
PHYS 2211	General Physics Lab	1
-----	CSCI Elective	3
<b>Spring Semester   Second Year</b>		
CSCI 2234	Server Administration	3
CSCI 2290	Computer Information Technology Capstone	3
-----	Student Pick 1 ( <i>3 of 3</i> )	3
COMM 1110	Interpersonal Communications	3
-----	Student Pick 2 ( <i>3 of 3</i> )	3
<b>Program Total</b>		<b>63/64</b>

**Students Pick TWO Focus Areas**

(after first year fall semester)

**Focus 1 - Networking**

- Class 1 - CSCI 2233 - CISCO Introduction to Networks
- Class 2 - CSCI 2236 - CISCO Routing and Networking
- Class 3 - CSCI 2239 - CISCO Enterprise Networking, Security, and Automation 4

**Focus 2 - Programming**

- Class 1 - CSCI 1121- Introduction to Computer Programming
- Class 2 - CSCI 2263 - HTML 5 Programming
- Class 3 - CSCI 2205 - Mobile Device Programming

**Focus 3 - Cybersecurity**

- Class 1 - CYBR 1121 -Introduction to Cybersecurity
- Class 2 - CYBR 2220 - Ethical Hacking
- Class 3 - CYBR 2230 - Advanced Cybersecurity

**Focus 4 - Robotics**

- Class 1 - EENG 1105 - DC Circuits & Devices
- Class 2 - CSCI 2260 - MicroController Programming
- Class 3 - EENG 2205 - Digital Circuits

# Mechanical Design Technology - 460C

Associate of Applied Science Degree

Total Credits: 64

**Nature of the Profession:** Designers prepare detailed drawings on computer aided drafting (CAD) systems. Drawings are made on a video screen and might never be placed on paper. These systems can save time from routine drafting work and permit design variations to be easily prepared, with consideration given to tooling and manufacturing.

**Related Job Titles:** Architect, Engineering Technician, Landscape Architect, Surveyor, and all product design and manufacturing technicians.

**\*\*To view the new part-time guided pathway for 460C, please visit [www.sccc.edu](http://www.sccc.edu).**

COURSES		CREDITS
<b>Fall Semester</b>		
ENDS 1140	Introduction to Engineering Graphics w/ AutoCAD	3
ENDS 1100	Intro to Engineering	2
CSCI 2218	Excel	3
ENGL 1101	English Composition I	3
EENG 1105	DC Circuits & Devices	3
MATH 1120	Technical Mathematics	3
<b>Spring Semester</b>		
ENDS 2230	Advanced 2D AutoCAD	3
ENDS 2233	Computer Aided Manufacturing	3
COMM 1115	Fundamentals of Effective Speech	3
PHYS 2201	General Physics	4
PHYS 2211	General Physics Lab	1
ENGL 2205	Technical Report Writing	3
<b>Fall Semester</b>		
ENDS 2201	Engineering Mechanics: Statics	3
ENDS 2205	Hydraulics & Pneumatics	3
ENDS 1143	Introduction to Project Management & Product Design	3
ENDS 2219	Tool Design & Manufacturing	3
ENDS 2231	3D AutoCAD	3
<b>Spring Semester</b>		
ENDS 2232	Introduction to SolidWorks	3
ENDS 2203	Strength of Materials	3
ENDS 2261	Manufacturing Materials and Processes	3
ENDS 2299	Design Capstone Project	3
-----	General Elective	3
<b>Program Total</b>		<b>64</b>

# Electro-Mechanical Engineering Technology - 470A

Associate of Applied Science Degree

Total Credits: 64

**Nature of the Profession:** Electro-Mechanical engineers work in various engineering and manufacturing companies using the principles and theories of science, engineering, and mathematics. They may prepare specifications for materials, test for quality control, study ways to improve manufacturing efficiency, supervise production workers, work as field representatives, install and repair technical equipment, or write repair and operation manuals.

**Related Job Titles:** Product Design and Manufacturing Technician, CAD, CAM, Instrumentation Calibration and Repair Technician, Technical Writer, Sales Technician, and Research and Test Technician.

**\*\*To view the new part-time guided pathway for 470A, please visit [www.sccc.edu](http://www.sccc.edu).**

COURSES		CREDITS
<b>Fall Semester</b>		
ENDS 1140	Introduction to Engineering Graphics w/AutoCAD	3
ENDS 1100	Introduction to Engineering	2
ENGL 1101	English Composition I	3
MATH 1120	Technical Math	3
EENG 1105	DC Circuits & Devices	3
<b>Spring Semester</b>		
CSCI 2260	MicroController Programming	3
ENDS 2232	Introduction to SolidWorks	3
PHYS 2201	General Physics I	4
PHYS 2211	General Physics I Lab	1
EENG 2205	Digital Electronics	3
EENG 1115	AC Circuits & Devices	3
<b>Fall Semester</b>		
EENG 1185	Electrical Machinery	3
EENG 2285	Manufacturing Control Systems	3
ENDS 2205	Hydraulics & Pneumatics	3
EENG 2215	Analog Circuits & Devices	3
ENDS 2201	Engineering Mechanics: Statics	3
ENDS 1143	Introduction to Project Management & Product Design	3
<b>Spring Semester</b>		
ENDS 2203	Strength of Materials	3
ENDS 2299	Design Capstone Project	3
ENGL 2205	Technical Report Writing	3
COMM 1115	Fundamentals of Effective Speech	3
-----	General Elective (Humanities or Social Sciences)	3
<b>Program Total</b>		<b>64</b>

# Aviation Maintenance - 470G

Associate of Applied Science Degree

Total Credits: 118

**Nature of the Profession:** Aviation mechanics repair and perform scheduled maintenance on airplanes and helicopters. They inspect aircraft as required by the Federal Aviation Administration (FAA).

**Related Job Titles:** Aviation Maintenance Technician, Aviation Mechanic, Sales and Service Technician, and FAA Certified Repairman.

## COURSES CREDITS

### Fall Semester

AVIT 1111	Aircraft Operations & Preservation	5
AVIT 1112	Basic Aircraft Electricity	5
AVIT 1113	Aircraft Materials, Processes, & Fluid Lines	5
MATH 1120	Technical Mathematics	3

### Spring Semester

AVIT 1121	Aircraft Maintenance Publications & Regulations	3
AVIT 2221	Aircraft Metallic Structures	6
AVIT 2222	Aircraft Fuel Systems	2
AVIT 2241	Aircraft Instrumentation, Navigation, and Communication	4
PHYS 2201	General Physics	4
PHYS 2211	General Physics Lab	1

### Summer Semester

AVIT 2231	Aircraft Non-Metallic Structures	5
AVIT 2232	Airframe Electrical Systems	5
AVIT 2233	Aircraft Landing Gear & Fluid Power	5
ENGL 1101	English Composition I	3

### Fall Semester

AVIT 2242	Aircraft Atmospheric & Protection Systems	3
AVIT 2243	Aircraft Assembly & Rigging	4
AVIT 2244	Airframe Inspection	3
AVIT 2363	Aircraft Propellers and Cooling Systems	5
ENDS 1140	Introduction to Engineering Graphics w/ AutoCAD	3
PHIL 1107	Ethics	3

### Spring Semester

AVIT 2351	Aircraft Reciprocating Engines I	6
AVIT 2352	Aircraft Reciprocating Engines II	6
AVIT 2353	Aircraft Fuel Metering	5
ENDS 2232	Introduction to SolidWorks	3
ENGL 2205	Technical Report Writing	3

### Summer Semester

AVIT 2361	Aircraft Turbine Engines I	6
AVIT 2362	Aircraft Turbine Engines II	6
AVIT 2364	Aircraft Powerplant Inspections	3
THEA 1121	Introduction to Theatre -OR-	
SOCI 1170	Introduction to Sociology-OR-	
PSYC 1110	Principles of Psychology	3

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**Program Total** **118**

# Aviation Airframe - 470I

Certificate Program

Total Credits: 63

**Nature of the Profession:** Aviation mechanics repair and perform scheduled maintenance on airplanes and helicopters. They inspect aircraft as required by the Federal Aviation Administration (FAA). The Airframe Certificate is the foundation of the maintenance technical role to maintain registered aircraft. The Airframe program must be completed before any FAA testing can occur as it also incorporates the general knowledge requirement.

**Related Job Titles:** Aviation Airframe Mechanic

COURSES		CREDITS
<b>Fall Semester</b>		
AVIT 1111	Aircraft Operations & Preservation	5
AVIT 1112	Basic Aircraft Electricity	5
AVIT 1113	Aircraft Materials, Processes, & Fluid Lines	5
MATH 1120	Technical Mathematics	3
<b>Spring Semester</b>		
AVIT 1121	Aircraft Maintenance Publications & Regulations	3
AVIT 2221	Aircraft Metallic Structures	6
AVIT 2222	Aircraft Fuel Systems	2
AVIT 2241	Aircraft Instrumentation, Navigation, and Communication	4
PHYS 2201	General Physics	4
PHYS 2211	General Physics Lab	1
<b>Summer Semester</b>		
AVIT 2231	Aircraft Non-Metallic Structures	5
AVIT 2232	Aircraft Electric Systems	5
AVIT 2233	Aircraft Landing Gear & Fluid Power	5
<b>Fall Semester</b>		
AVIT 2242	Aircraft Atmospheric Protection Systems	5
AVIT 2243	Aircraft Assembly & Rigging	5
AVIT 2244	Aircraft Inspection	5
<b>Program Total</b>		<b>63</b>

# Aviation Powerplant - 470J

Certificate

Total Credits: 48

**Nature of the Profession:** Aviation mechanics repair and perform scheduled maintenance on airplanes and helicopters. They inspect aircraft as required by the Federal Aviation Administration (FAA). Works to diagnose, repair, and maintain aircraft and helicopter engines and assemblies.

**Related Job Titles:** Aviation Mechanic and Aviation Power Plant Technician .

COURSES		CREDITS
<b>Fall Semester</b>		
AVIT 2363	Aircraft Propellers and Cooling Systems	5
ENGL 1101	English Composition I	3
MATH 1120	Technical Mathematics	3
<b>Spring Semester</b>		
AVIT 2351	Aircraft Reciprocating Engines I	6
AVIT 2352	Aircraft Reciprocating Engines II	6
AVIT 2353	Aircraft Fuel Metering	5
PHYS 2201	General Physics I	4
PHYS 2211	General Physics I Lab	1
<b>Summer Semester</b>		
AVIT 2361	Aircraft Turbine Engines I	6
AVIT 2362	Aircraft Turbine Engines II	6
AVIT 2364	Aircraft Powerplant Inspections	3
<b>Program Total</b>		<b>48</b>



# Early Childhood Education - 485

Associate of Applied Science Degree

Total Credits: 63

**Nature of the Profession:** Early childhood professionals are responsible for planning daily programs, providing caring and nurturing environments, and utilizing community resources to enrich programs and to support the needs of young children and their families.

**Related Job Titles:** Pre-kindergarten Teacher, Associate Teacher, Preschool/Child Care Teacher, Nanny, Infant/Toddler Caregiver, or Children's Activities Coordinator for hospitals, group homes, resorts, etc.

**Note:** Successful completion of the Early Childhood Education program, along with a passing performance on the required state of Ohio exam, will permit graduates to obtain an Ohio Pre-K teaching license.

COURSES		CREDITS
<b>Fall Semester</b>		
EDUC 1140	Introduction to Early Childhood Education	3
EDUC 1145	Observation/Assessment of Children	3
EDUC 2234	Technology in Education	3
EDUC 1000	Introduction to Child Dev.	3
ENGL 1101	English Composition I	3
<b>Spring Semester</b>		
BIOL 1060	Environmental Science	3
EDUC 2243	Indiv. w/ Exceptionalities	3
EDUC 1118	Guiding Children's Behavior & Learning	3
EDUC 2219	Infant/Toddler Care and Education	3
EDUC 2230	Children's Literature with Reading Approaches	3
<b>Fall Semester</b>		
EDUC 1163	Social Studies for the Young Child	3
EDUC 2217	Science & Math Experiences for the Young Child	3
PSYC 1110	Principles of Psychology	3
EDUC 2215	Health/Physical Education for Children	3
FNAR 1104	Intro to Art	3
EDUC 1110	Art/Music for Young Child	3
<b>Spring Semester</b>		
EDUC 2228	Families, Communities, and Schools	3
PSYC 2241	Educational Psychology	3
EDUC 2240	Early Childhood Practicum	3
EDUC 2241	Early Childhood Seminar	3
MATH 1115	Math for the Business & Social Sciences	3
<b>Program Total</b>		<b>63</b>

# Paraprofessional Education - 486

Associate of Applied Science Degree

Total Credits: 64

**Nature of the Profession:** Paraprofessionals work in schools and districts throughout Ohio and serve a critical role in supporting the delivery of high quality instruction for all children (from preschool through grade 12), especially those students considered at risk. Today's paraprofessionals (which may also be known as instructional assistants, special education aides, teaching assistants, or teaching/classroom aides) work alongside a professional under the direction of licensed teachers, as part of instructional teams, to support individual students and small groups of students to access and progress through challenging curricula aligned with Ohio's academic content and common core state standards.

General duties associated with a paraprofessional educator include the following:

- Assisting teachers in the classroom
- Supervising students outside of the classroom
- Providing administrative support for teaching
- Helping students understand and complete assignments
- Working with students who have special needs
- Performing clerical work for teachers as needed

<b>COURSES</b>		<b>CREDITS</b>
<b>Fall Semester</b>		
EDUC 1101	Introduction to Education	3
EDUC 2234	Technology in Education	3
ENGL 1101	English Composition I	3
PSYC 1110	Principles of Psychology	3
EDUC 1145	Observation/Assessment of Children	3
<b>Spring Semester</b>		
EDUC 1102	Foundations of Education	3
EDUC 1118	Guiding Children's Behavior & Learning	3
ENGL 1102	English Composition II	3
EDUC 2243	Ind. w/Exceptionalities	3
EDUC 1000	Introduction to Child Development	3
<b>Fall Semester</b>		
EDUC 2220	Foundation of Literacy	3
PHYS 1104	Physical Science - Geology	4
COMM 1115	Fundamentals of Effective Speech	3
EDUC 2260	Teach. in a Diverse Society	3
MATH 1115	Math for the Business & Social Sciences	3
FNAR 1104	Introduction to the Arts	3
<b>Spring Semester</b>		
EDUC 2228	Families, Communities, and Schools	3
PSYC 2241	Educational Psychology	3
EDUC 2225	Paraprofessional Seminar	3
EDUC 2224	Paraprofessional Practicum	3
BIOL 1060	Environmental Science	3
<b>Program Total</b>		<b>64</b>

# Medical Assisting - 492

Associate of Applied Science Degree

Total Credits: 60

**Nature of the Profession:** The Medical Assistant is cross-trained to perform administrative and clinical duties in physician's offices, hospitals and other healthcare facilities. They may choose to work as a receptionist in a hospital or physician's office, a medical transcriptionist/scribe, insurance specialist, financial secretary, billing and collection specialist, laboratory assistant, or a clinical assistant involved in patient care. Duties vary with the location, specialty and needs/size of the practice.

**Related Job Titles:** Medical Receptionist, Computerized Medical Office Management, Medical Records Clerk, Medical Transcriptionist/Scribe, Clinical Assistant, Lab Assistant, Out-patient Clinic Medical Assistant, X-ray Aide, Health Coach/Manager, Patient Navigator, or Patient Care Coordinator.

**Program Design:** This program is designed to be completed following the Step Pathway outline, a two-year program if a full time student. Graduates also earn the Medical Assistant Technology Certificate and are eligible to complete multiple credentialing exams upon successful program completion. All courses must be completed with a grade of "C" or better.

**Application Criteria:** Admission to the Medical Assisting (MAST) Program requires completion of written application and program acceptance. The Medical Assisting Student Handbook details program and admission requirements (available online). Complete the program application and submit with required documentation by the appropriate deadline. Completion of minimum requirements does not guarantee a placement.

See the Student Handbook for the Medical Assisting Program and requirements/policies pertaining to: **GPA Requirements, Health Requirements, Required Immunizations/Tests, General Practicum Requirements Background checks, etc.**

*It is strongly recommended for students within Medical Assisting to meet with an advisor within the program every semester to ensure they are taking classes in sequence. Not meeting with a Medical Assisting program advisor may result in a student being unable to finish their degree in a timely manner.*

**Please Note:** General Education Courses for the A.A.S. in Medical Assisting may be completed prior to, or following, the 492E Medical Assisting Certificate.

## Step 1 – Pathway to Medical Assistant Technician

*After successful completion of first three semesters, you will be eligible to earn multiple credentials including the Certified Medical Assistant (CMA) from American Association of Medical Assistants (AAMA), the Registered Medical Assistant (RMA) credential through American Medical Technologists (AMT) and the Certified Clinical Medical Assistant (CCMA) from National Healthcareer Association (NHA).*

### COURSES CREDITS

#### Fall Semester | Year One

MAST 1101	Introduction to Medical Assisting & Procedures	3
MAST 1111	Medical Administrative Procedures	3
MAST 1115	Medical Terminology	2
MAST 2218	Medical Billing & Coding	3
MAST 2212	Medical Transcription	3

#### Spring Semester | Year One

ALTH 1160	Electronic Health Records	2
MAST 2215	Medical Laboratory Techniques	3
MAST 2220	Emergency Medical Procedures	3
MAST 2230	Pharmacology for Medical Assisting	3
MAST 2240	Clinical Procedures	3

#### Summer Semester | Year One

MAST 1118	Human Diseases	2
MAST 1126	Clinical Practicum I	1
MAST 2205	Medical Law & Ethics	2
MAST 2226	Clinical Practicum II	1
MAST 2297	Medical Assisting Review	2

## Step 2 – Pathway to A.A.S. Medical Assisting

*Meet with the MAST Program Director to discuss recommended course options for completion of AAS in Medical Assisting – See Program 492/492B/492E. Completion of the Medical Assistant Technology Certificate is stackable within the AAS in Medical Assisting Degree Program (see Year 2 below). Most of the required AAS Pathway courses include online or hybrid offerings.*

### Fall Semester | Year Two

BIOL 1510	Anatomy & Physiology I	3
BIOL 1511	Anatomy & Physiology Lab I	1
CSCI 1101	Computer Keyboarding	1
ENGL 1101	English Composition I	3
PSYC 1110	Principles of Psychology	3

### Spring Semester | Year Two

BIOL 1520	Anatomy & Physiology II	3
BIOL 1521	Anatomy & Physiology Lab II	1
COMM 1115	Fund. of Effect. Speech	3
MATH 1135	Allied Health Mathematics	3
PSYC 1111	Life Span & Human Dev.	3

## Step 3 – Pathway to Bachelor Degree

*Transfer to one of our Partner Universities for a Bachelor Degree in Healthcare Management OR Bachelor Degree in Healthcare Administration.*

Program Total 60

# Phlebotomy Technician - 492B

## Certificate Program

Total Credits: 31

**Nature of the Profession:** A Phlebotomist is trained to work primarily in a hospital and is depended upon to acquire quality blood specimens from the patient by performing venipuncture and capillary sticks.

**Related Job Titles:** Phlebotomist, Phlebotomy Technician, Lab Assistant, Reference Lab Phlebotomist

**Program Design:** This program is designed to be completed in 2 semesters if a full time student. A Step Pathway option is available for part-time students. All courses must be completed with a grade of “C” or better.

**Application Criteria:** Admission to this Allied Health (ALTH) Program requires completion of written application and program acceptance. The Allied Health Student Handbook details program and admission requirements (available online). Complete the program application and submit with required documentation by the appropriate deadline. Completion of minimum requirements does not guarantee a placement.

See the Student Handbook for the Phlebotomy Program/Allied Health Certificate Program requirements/policies pertaining to: **GPA Requirements, Health Requirements, Required Immunizations/Tests, General Practicum Requirements Background checks, etc.**

*It is strongly recommended for students within Allied Health Sciences to meet with an advisor within the program every semester to ensure they are taking classes in sequence. Not meeting with an Allied Health Science program advisor may result in a student being unable to finish their degree in a timely manner.*

### Gainful Employment Program Disclosure

This Title-IV-eligible certificate is subject to the US Department of Education gainful employment regulations. These regulations require that we make the gainful employment program disclosure information available to you so that you may make informed decisions about which program best meets your career path needs.

## COURSES

## CREDITS

### Step 1 – Pathway to Phlebotomy Technician

*After successful completion of Step 1, you will be eligible to earn the Phlebotomy Technician (PBT) credential through the American Society of Clinical Pathology (ASCP), and the Registered Phlebotomy Technician (RPT) credential through American Medical Technologists (AMT) and the Certified Phlebotomy Technician (CPT) credential through National Healthcareer Association (NHA).*

### Spring Semester

MAST 2220	Emergency Medical Procedures	3
ALTH 2201	Phlebotomy Technology	3
ALTH 2225	Phlebotomy Practicum	1

### Step 2 – Pathway to Phlebotomy Tech Certificate

*Meet with the ALTH Program Director to discuss recommended course options for 1-year Full-time Status Outline or course options for Part-Time Status Outline.*

### Fall Semester | Year 1

BIOL 1040	Human Biology I	3
BIOL 1041	Human Biology Lab I	1
CSCI 1101	Computer Keyboarding	1
ENGL 1101	English Composition I	3
MAST 1115	Medical Terminology	2
MATH 1116	Beginning Algebra	3

### Spring Semester | Year 1

BIOL 1050	Human Biology II	3
BIOL 1051	Human Biology Lab II	1
MAST 1118	Human Diseases	2
MAST 2205	Medical Law & Ethics	2
MATH 1118	Intermediate Algebra OR	(4)
MATH 1135	Allied Health Mathematics	3

*Completion of the Phlebotomy Technician Certificate is stackable within the Medical Assistant Technology Certificate and the Associate of Applied Science in Medical Assisting Program. Most of the required courses include online offerings, allowing degree completion while working in the field.*

**Add Step 1 Spring Term Courses if not complete.**

**Program Total does not include any pre-requisites: 31 (32)**

### Step 3 – Pathway to A.A.S. Medical Assisting

*Meet with the Program Director for a complete Program Outline for A.A.S. Medical Assisting – See Program 492/492E.*

### Step 4 – Pathway to Bachelor Degree

*Transfer to one of our Partner Universities for a Bachelor Degree in Healthcare Management OR Bachelor Degree in Healthcare Administration.*

# Medical Assistant Technology - 492E

## Certificate Program

Total Credits: 36

**Nature of the Profession:** The Medical Assistant is cross-trained to perform administrative and clinical duties in physician's offices, hospitals and other healthcare facilities. They may choose to work as a receptionist in a hospital or physician's office, a medical transcriptionist/scribe, insurance specialist, financial secretary, billing and collection specialist, laboratory assistant, or a clinical assistant involved in patient care. Duties vary with the location, specialty and needs/size of the practice.

**Related Job Titles:** Medical Receptionist, Computerized Medical Office Management, Medical Records Clerk, Medical Transcriptionist/Scribe, Clinical Assistant, Lab Assistant, Out-patient Clinic Medical Assistant, X-ray Aide, Health Coach/Manager, Patient Navigator, or Patient Care Coordinator.

**Program Design:** This certificate program is designed to be completed in three semesters, or one academic year, when enrolled as a full time student. The certificate may also be used as a Step Pathway toward the A.A.S. in Medical Assisting. Graduates are eligible to complete multiple credentialing exams upon successful semester and/or program completion. All courses must be completed with a grade of "C" or better.

**Application Criteria:** Admission to the Medical Assisting (MAST) Program requires completion of written application and program acceptance. The Medical Assisting Student Handbook details program and admission requirements (available in the Medical Assisting/Allied Health office or at <https://www.sccc.edu/academics/associate/applications/medical-assisting-app-2018.pdf>). Complete the program application and submit with required documentation by the appropriate deadline. Completion of minimum requirements does not guarantee a placement.

See the Student Handbook for the Medical Assisting Program/Allied Health Certificate Program requirements/policies pertaining to: **GPA Requirements, Health Requirements, Required Immunizations/Tests, General Practicum Requirements Background checks, etc.**

*It is strongly recommended for students within Medical Assisting to meet with an advisor within the program every semester to ensure they are taking classes in sequence. Not meeting with a Medical Assisting program advisor may result in a student being unable to finish their degree in a timely manner.*

### Gainful Employment Program Disclosure

This Title-IV-eligible certificate is subject to the US Department of Education gainful employment regulations. These regulations require that we make the gainful employment program disclosure information available to you so that you may make informed decisions about which program best meets your career path needs.

*The Southern State Community College Medical Assisting Technology Certificate is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Medical Assisting Education Review Board (MAERB) Commission on Accreditation of Allied Health Education Programs, 25400 U.S. Highway 19 North, Suite 158 Clearwater, FL 33763, (727) 210-2350.*

## COURSES

## CREDITS

### Pathway to Medical Assistant Technician Certificate

#### Fall Semester | Year One

*After successful completion of first three semesters, you will be eligible to earn multiple credentials including the Certified Medical Assistant (CMA) from American Association of Medical Assistants (AAMA), the Registered Medical Assistant (RMA) credential through American Medical Technologists (AMT) and the Certified Clinical Medical Assistant (CCMA) from National Healthcareer Association (NHA).*

MAST 1101	Introduction to Medical Assisting & Procedures	3
MAST 1115	Medical Terminology	2
MAST 2218	Medical Billing & Coding I	3
MAST 2212	Medical Transcription	3
MAST 1111	Medical Admin. Procedures	3

#### Spring Semester | Year One

ALTH 1160	Electronic Health Records	2
MAST 2215	Medical Laboratory Techniques	3
MAST 2220	Emergency Medical Procedures	3
MAST 2230	Pharmacology	3
MAST 2240	Clinical Procedures	3

#### Summer Semester | Year One

MAST 1118	Human Diseases	2
MAST 1126	Clinical Practicum I	1
MAST 2205	Medical Law & Ethics	2
MAST 2226	Clinical Practicum II	1
MAST 2297	Medical Assisting Review	2

### Program Total

36

### Step 2 – Pathway to A.A.S. Medical Assisting

*Meet with the MAST Program Director to discuss recommended course options for completion of AAS in Medical Assisting – See Program 492/492B/492E. Completion of the Medical Assistant Technology Certificate is stackable within the AAS in Medical Assisting Degree Program (see Year 2 below). Most of the required AAS Pathway courses include online or hybrid offerings.*

#### Fall Semester | Year Two

BIOL 1510	Anatomy & Physiology I	3
BIOL 1511	Anatomy & Physiology Lab I	1
CSCI 1101	Computer Keyboarding	1
ENGL 1101	English Composition I	3
PSYC 1110	Principles of Psychology	3

#### Spring Semester | Year Two

BIOL 1520	Anatomy & Physiology II	3
BIOL 1521	Anatomy & Physiology Lab II	1
COMM 1115	Fund. of Effective Speech	3
MATH 1135	Allied Health Mathematics	3
PSYC 1111	Life Span & Human Dev.	3

### Step 3 – Pathway to Bachelor Degree

*Transfer to one of our Partner Universities for a Bachelor Degree in Healthcare Management OR Bachelor Degree in Healthcare Administration.*

# Law Enforcement Major - 496A

Associate of Applied Science Degree

Total Credits: 65

<b>Nature of the Profession:</b>	<b>COURSES</b>	<b>CREDITS</b>
<p>Law Enforcement Professionals work in a variety of environments which require the ability to conduct investigations, to provide security and service, and to communicate with varied constituencies. A broad working knowledge of criminal and civil law, especially in regard to police procedure, is required. A large number of new and replacement personnel in Law Enforcement are projected to be needed for the next decade.</p> <p><b>Related Job Titles:</b> Patrol Officer, Detective, Bailiff, Criminal Investigator, Sheriff and Sheriff's Deputy.</p>	<p><b>Fall Semester - First Year</b></p> <p>ENGL 1101 English Composition I 3            PSCI 1104 American Government I 3            CJUS 1101 Introduction to Law Enforcement 4            CJUS 2233 Criminal Investigation 2            SOCI 2230 Social Problems 3            SOCI 2231 Juvenile Delinquency 2</p> <p><b>Spring Semester - First Year</b></p> <p>MATH 1115 Math for the Business &amp; Social Sciences(or higher) 3            ENGL 1102 English Composition II 3            PSCI 1105 American Government II 3            CJUS 2234 Constitutional Criminal Procedures 3            CJUS 2245 *Crime Scene Investigation 3            PHIL 1107 Ethics 3</p> <p><b>Fall Semester - Second Year</b></p> <p>CJUS 2236 Current Issues in Criminal Justice 3            CJUS 1102 *Basic Law Enforcement I 9            COMM 1115 Fundamental of Effective Speech 3</p> <p><b>Spring Semester - Second Year</b></p> <p>CJUS 2241 Comparative Criminal Justice Systems 3            PSYC 1110 Principles of Psychology 3            CJUS 1103 *Basic Law Enforcement II 9</p> <p><b>Program Total</b></p>	<hr/> <p><b>65</b></p>