

2022- 2023

Catalog &
Student
Handbook



NORTHEAST
ALABAMA
COMMUNITY
COLLEGE



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Northeast Alabama Community College 2022 - 2023



CATALOG



**STUDENT
HANDBOOK**

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Welcome

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Rainsville, Alabama 35986
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Northeast Alabama Community College is a member of the Alabama Community College System, the Southern Association of Colleges and Schools Commission on Colleges, Inc., the American Association of Community Colleges, the Alabama Community College Association, the National Association for Developmental Education, the Accreditation Commission for Education in Nursing, the National League for Nursing, the League for Innovation in the Community College, and the National Institute for Staff and Organizational Development.

Northeast Alabama Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award the Associate degree. Degree-granting institutions also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Northeast Alabama Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

Message from the President

Whatever your education needs, Northeast Alabama Community College (NACC) will provide you with an opportunity to set the foundation for your future. As a comprehensive community college, NACC provides educational programs in academic transfer, career and job training, cultural activities, the fine arts, and adult basic education. College personnel strive for excellence and the result is a community college that is one of the best in the South.

Know that when you enroll in one of our academic transfer programs and follow the appropriate guidelines that your courses are guaranteed by state law to be accepted at any public college in Alabama. For more information on this visit the Alabama Transfers website at alabamatransfers.com. Know, also, that our career programs are among the best in the state. Our nursing students, for example, consistently pass National Council Licensure Examination (NCLEX) for registered nurses at a rate much higher than state and national averages. Take part, or simply enjoy our outstanding cultural arts programs at Northeast, such as those in theatre, music, art, and the humanities. NACC has steadily built a reputation as a major center for the arts in North Alabama. Perhaps you need job skills training and refresher courses in developmental studies; these opportunities are available at NACC as well.

As you read through this catalog, know also that financially there is a way for you to attend NACC. Our tuition is very affordable — only fifty to sixty percent of that at a four-year school. Additionally, NACC operates an outstanding financial aid and scholarship program. Our student loan program, in fact, provides anyone with the opportunity to attend Northeast. Loans are made with little or no interest in the repayment schedule. The college has never been so accessible.

While at Northeast, students may take part in a diverse range of activities, such as intramural sports, physical activities, academic honoraries, professional and career groups, student government, clubs, and organizations. We want our students to enjoy their experiences here at Northeast and our campus is lined with courtyards, flower gardens, sidewalk tables, and benches. The college has a walking/nature trail around a four-acre lake on the north end of campus. We know that at a college much learning takes place in the interaction of fellow students, faculty, and staff. Our college is designed toward providing that interaction.

We at Northeast are proud of the national recognition that we have received in recent years. The prestigious Aspen Institute, for example, has named NACC as one of the top community colleges in America. Also, CNNMoney ranked the college the fifteenth best among the approximately 1,000 American community colleges, and BestSchools.org named Northeast the twentieth best in the nation. The college has doubled its enrollment over the past decade and added new programs and buildings. Our state-of-the-art Mathematics, Science, and Engineering Technology Center is our newest facility. We are one of the first complete WiFi access locations in Alabama and we now are a certified Gig campus as provided by Farmers Telecommunications. NACC is the only college or university in Alabama that is Gig certified. We take special pride in the educational technology that we have on campus. This technology includes twenty-five computer labs that serve students.

Attend Northeast and find out why our Instructors are so often described as the “best teachers I ever had” by so many people who attend the college. Come join us at Northeast and feel the energy and pride of an institution that is on the move. You will forever be a part of the Northeast family! Begin your future here!

*Dr David Campbell, President
Northeast Alabama Community College*



General Information

Introduction

Mission Statement

The mission of Northeast Alabama Community College is to provide accessible quality educational opportunities, promote economic growth, and enhance the quality of life for the people of Alabama.

Goals

To accomplish the mission, Northeast Alabama Community College has established the following goals or intended results:

1. An “open door” admission policy which insures nondiscriminatory educational opportunities for individuals regardless of race, color, disability, sex, religion, creed, national origin, or age.
2. Available, accessible, and affordable courses that provide quality instruction in general education at the freshman and sophomore levels that lead to the attainment of specified learning outcomes, associate degrees, and transfer to senior institutions.
3. Available, accessible, and affordable courses that provide quality instruction in career and technical programs that lead to the attainment of specified learning outcomes, certificates, associate degrees, or institutional awards, and employment in the field of study.
4. Developmental and adult basic education which assists individuals who need to improve their basic learning skills and supports individuals lacking college preparatory backgrounds.
5. Student services which assist individuals to formulate and achieve career, educational and personal goals through counseling and academic advisement services and provide opportunities to participate in social and cultural activities.
6. Recruitment and retention of qualified personnel who are afforded professional development opportunities and institutional support needed to provide quality postsecondary education.

7. Services and training specifically designed and delivered to meet the needs of local business, industry, community organizations, and governmental agencies.
8. Community services which support personal growth, cultural enrichment, and societal activities; provide access to college facilities for community activities; and promote community, social, and economic improvement.
9. Procurement and administration of financial resources in an effective manner.
10. Provision for and maintenance of a physical plant with instructional facilities and technology which provide a safe learning environment and are suitable for all the institution’s programs and services.

2022 -2023 Quick Reference Calendar

Semester	Fall 2022	Spring 2023	Summer 2023
Registration (Regular)	August 22	January 6	May 26
First Day of Classes	August 23	January 9	May 30
Registration Ends - Last Day to Drop Add Classes	August 26	January 13	May 31
Last Day to Drop Classes/ Withdraw	December 6	April 27	August 1
Last Day of Classes	December 13	May 4	August 8
Final Examinations	December 14-20	May 5-11	August 9-10
Holidays/College Closed	September 5		
	November 11	January 16	May 29
	November 24-25	March 31	June 19
	December 23-27	April 7	July 3-4
Graduation		May 16	

**Academic Calendar subject to change. Please check each semester's Schedule of Classes for registration information.*

College Calendar

Fall Semester 2022

(Composite: 79 Instructional Days; 87 Duty Days)

Registration by appointment begins Monday, June 13, 2022

Monday, June 13 (Students with 45 or more earned hours in traditional coursework)

Wednesday, June 15 (Students with 30 or more earned hours in traditional coursework)

Friday, June 17 (All students)

August 18	Thursday	Local Professional Development Faculty Duty Day
August 19	Friday	Faculty Duty Day
August 22	Monday	Registration - Faculty Duty Day
August 23	Tuesday	First Day of Class
August 26	Friday	Registration Ends – Last Day to Drop/Add Classes
September 5	Monday	Labor Day Holiday/College Closed
November 11	Friday	Veterans' Day Holiday/College Closed
November 21-23	Monday - Wednesday	Faculty Duty Days (no classes)
November 24-25	Thursday - Friday	Thanksgiving Holidays/College Closed
November 28	Monday	Classes Resume
December 6	Tuesday	Last Day to Drop Class/Withdraw
December 13	Tuesday	Last Day of Class
December 14-20	Wednesday-Tuesday	Final Exams
December 21-22	Wednesday-Thursday	Faculty Duty Days
December 23	Friday	Christmas Holiday/College Closed
December 26	Monday	Christmas Holiday/College Closed
December 27	Tuesday	Local Holiday/College Closed
December 28-30	Wednesday-Friday	Staff Duty Days/Non-Instructional

Spring 2023 Semester

(Composite: 82 Instructional Days; 88 Duty Days)

Registration by appointment begins Monday, October 3, 2022

Monday, October 3 (Students with 45 or more earned hours in traditional coursework)

Wednesday, October 5 (Students with 30 or more earned hours in traditional coursework)

Friday, October 7 (All students)

January 2	Monday	New Year's Day Holiday/College Closed
January 3	Tuesday	Staff Duty Days/Non-Instructional
January 4	Wednesday	Local Professional Development Faculty Duty Day
January 5	Thursday	Faculty Duty Day
January 6	Friday	Registration – Faculty Duty Day
January 9	Monday	First Day of Class

January 13	Friday	Registration Ends – Last Day to Drop/Add Classes
January 16	Monday	Dr. M.L. King Birthday Observance/College Closed
March 27-31	Monday-Friday	Spring Break – No Classes
March 27-30	Monday-Thursday	Staff Duty Days/Non-Instructional
March 31	Friday	Local Holiday/College Closed
April 3	Monday	Classes Resume
April 7	Friday	Local Holiday/College Closed
April 27	Thursday	Last Day to Drop Class/Withdraw
May 4	Thursday	Last Day of Class
May 5-11	Friday-Thursday	Final Exams
May 12-15	Friday-Monday	Faculty Duty Days
May 16	Tuesday	Graduation – Faculty Duty Day

Summer 2023 Semester

(Composite: 50 Instructional Days; 54 Duty Days)

Registration by appointment begins Monday, April 3, 2023 Monday

April 3 (Students with 45 or more earned hours in traditional coursework)

Wednesday, April 5 (Students with 30 or more earned hours in traditional coursework)

Friday, April 7 (All students)

May 25	Thursday	Local Professional Development/Faculty Duty Day
May 26	Friday	Registration – Faculty Duty Day
May 29	Monday	Memorial Day/College Closed
May 30	Tuesday	First Day of Class
May 31	Wednesday	Registration Ends – Last Day to Drop/Add Classes
June 19	Monday	Juneteenth Holiday/College Closed/Local Holiday
July 3	Monday	Local Holiday/College Closed
July 4	Tuesday	Independence Day Holiday/College Closed
August 1	Tuesday	Last Day to Drop Class/Withdraw
August 8	Tuesday	Last Day of Class
August 9-10	Wednesday-Thursday	Final Exams
August 11-14	Friday-Monday	Faculty Duty Days

Holidays 2022-2023

The following days are designated as official holidays, and all twelve-month non-instructional personnel will not be required to work. There are ten prominent and common holidays plus five institutional holidays throughout the twelve-month period. The college will be officially closed on these days; however, a security force will be on duty at all times.

September 5	Monday	Labor Day (State Holiday)
November 11	Friday	Veterans' Day (State Holiday)
November 24-25	Thursday- Friday	Thanksgiving (State Holidays)
December 23-26	Friday-Monday	Christmas (State Holidays)
December 27	Tuesday	Local Holiday
January 2	Monday	New Year's Day (State Holiday)
January 16	Monday	Dr. M.L. King Day (State Holiday)
March 31	Friday	Local Holiday

April 7	Friday	Local Holiday
May 29	Monday	Memorial Day (State Holiday)
June 19	Monday	Local Holiday
July 3	Monday	Local Holiday
July 4	Tuesday	Independence Day Holiday (State Holiday)

General Information

History

Northeast is one of the twelve junior colleges created by the State Legislature during the administration of Governor George C. Wallace. Act No. 93, approved May 3, 1963, authorized the College. Act No. 94 approved May 3, 1963, vested in the State Board of Education the authority and responsibility for the operation and maintenance of the community colleges. On May 7, Act No. 2015-125 changed the governance to the Alabama Community College System Board of Trustees.

Many individuals and organizations were instrumental in locating the College on the Jackson-DeKalb County line. The Jackson County Board of Revenue and the DeKalb County Board of Commissioners donated a sixty-acre site for the College. The original site consisted of thirty acres in Jackson County and thirty acres in DeKalb County. An additional 35 acres were purchased in February of 1969, 5.54 acres purchased in 1982, 2.7 acres purchased in 1991, 10 acres purchased and 1-7/10 acres donated in 1996, and approximately 3 acres added in 2009.

The College began operation on the quarter system (fall, winter, spring, and summer). The first classes began September 30, 1965, with 380 freshmen. In the Fall of 1998, Northeast changed to the semester system (fall, spring and summer).

In May, 1992, the Alabama State Board of Education renamed the College Northeast Alabama State Community College. The Chancellor of the Alabama Community College System approved the change in the name of the College to Northeast Alabama Community College in 1996.

Campus

The campus of Northeast consists of 117 acres and eighteen buildings. Two large, lighted directional signs, each with a campus map, are placed in strategic locations for the assistance of students and visitors. One of these signs is located just off the front parking lot, between the Pendley Administration Building and the quadrangle. The other is near the east entrance to the Student Center, between the Learning Resources Center and the Business Education Building. Additionally, a sign at the entrance to each building displays the building name and the corresponding two-

letter code used to identify class location in the schedule of classes each term. A feature of special interest is the .7-mile Nature and Walking Trail, a paved, fully accessible pathway circling a four-acre lake on the north side of campus. This trail is open to students and to the community during daylight hours.

The George C. Wallace Administration Building accommodates faculty, professional and administrative support staff members, a photocopying facility, general classrooms, Financial Aid, College and Career Planning Center, and Dean of Administrative Services.

The Social Sciences Building provides the laboratories and classrooms for social sciences and criminal justice. It also has faculty offices and a tiered lecture room.

The Annex contains classrooms and the college bookstore.

The English Building accommodates classrooms, faculty offices, and the Student Government Association.

The Student Center provides a cafeteria, a large dining or lounging area for students, a guest dining room, Kahva Cafe, first aid facilities, Dean of Student Services and admissions offices, campus police, and the Center for Student Success.

The W. M. Beck Health and Fine Arts Building houses art, music, Music Auditorium, and the Adult Basic Education program.

The Maintenance Building provides facilities for the care and upkeep of the buildings and grounds.

The Harry Campbell Business Education Building contains faculty offices, business and office administration classrooms.

The Cecil B. Word Learning Resources Center features an audiovisual room and resources, a distance learning facility, online resources, classrooms, and faculty offices, as well as the college library.

The E. R. Knox Science Laboratory Building houses chemistry and biology laboratories, along with faculty offices.

The Tom Bevill Lyceum houses the theatre and drama classrooms. It features a 730 seat auditorium.

The Charles M. Pendley Administration Building provides offices for the President, the Vice President/Dean of Instruction, the Dean of Workforce Development and Skills Training, the Director of Extended Day/Distance Education Program, Director of Development, Director of Educational Technology, High School Relations/Recruiting, Event Planning and Alumni Relations, and the Director of Promotions and Marketing. The Management Information Services and Registrar's Offices are also in this building, along with classrooms and computer laboratories.

The Technology Center houses the Industrial Electronics and Computer Aided Drafting programs, with laboratories and faculty offices.

The Health Education/Workforce Technology Building houses all health-related programs as well as the Alabama Technology Network Center.

The Industry Training Center provides classrooms and faculty offices for the workforce development division.

The Industrial Systems Technology Center houses workforce development programs with classrooms, laboratories, and faculty offices.

The Math, Science and Engineering Technology Center houses classrooms, anatomy, biology, chemistry, mathematics, and physics/engineering tech laboratories, faculty offices, and student study areas, as well as a storm shelter.

Building	Year
George C. Wallace Administration Building	1965
Social Sciences Building	1966
English Building	1966
Student Center	1966
Annex	1968
W. M. Beck Health and Fine Arts Building	1970
Maintenance Building	1974
Industry Training Center	1975
Student Center Addition	1975
Harry Campbell Business Education Building	1977
Cecil B. Word Learning Resources Center	1979
E. R. Knox Science Laboratory Building	1984
Tom Beville Lyceum	1994
Charles M. Pendley Administration Building	1994
Technology Center	2002
Health Education/Workforce Technology Center	2007
Industrial Systems Technology Center	2009
Math, Science, and Engineering Technology Center	2014

Admission Requirements

Admission Requirements

Applications for admission to Northeast may be completed at any time; however, it is suggested that all admissions requirements be completed at least two weeks before the semester in which the student plans to attend. Admission to the College does not ensure admission to any individual program or course. An application may be completed online. An applicant who has no prior post-secondary experience who is attending the College for the first time will be designated a first-time college student. An applicant who is attending the College for the first time and has previously attended a post-secondary institution will be designated as a transfer student. The student may transfer with or without credit but must still send their previous institution transcripts.

Students who have submitted all required documentation will be admitted as unconditional status.

Students who have not submitted all required documentation will be admitted as conditional status. Failure to provide documentation by the end of the first semester will prevent a student from future registration and official transcript release. If all required admissions documentation has not been received by the College prior to the issuance of first semester grades, the grades will be reported on the transcript, but the transcript will not be released until all required documentation is received.

Students previously enrolled at Northeast who have not been in attendance for one year will be required to complete a readmission application. If the student attended college elsewhere during this period, official transcript(s) must be sent to the Registrar Office.

An applicant must provide the following required admissions documentation:

1. **High School Graduates/GED® students must complete the NACC orientation program and placement testing. Students must also provide:**
 - a. Admission application
 - b. Primary form of identification:
 - Unexpired Alabama Driver's or Instruction Permit
 - Unexpired Alabama identification card
 - Unexpired U.S. Passport
 - Unexpired U.S. Permanent Resident Card
 - Resident Alien Card – Pre-1997
 - Unexpired Driver's License or instruction permit from another state possession that verifies lawful presence, dated 2000 and beyond
 - U.S. Alien Registration Receipt Card (Form I-151) prior to 1978
 - BIA or tribal identification card with photo

- I-797 Form with expiration date
 - Voter identification card from a state that verifies lawful presence
- c. Official transcript directly from the institution – high school or GED®
- d. Official transcript – all other colleges attended. (Students who have achieved a minimum of a Baccalaureate degree are only required to submit a transcript from the degree granting institution.)
2. **Transient Students** – A student enrolled at another college or university who is taking classes at Northeast for the express purpose of transferring credit back to the home college or university is classified as a transient student.
- a. Admission application
- b. Primary form of identification:
- Unexpired Alabama Driver’s License or instruction permit
 - Unexpired Alabama identification card
 - Unexpired U.S. Passport
 - Unexpired U.S. Permanent Resident Card
 - Resident Alien Card – Pre-1997
 - Unexpired Driver’s License or instruction permit from another state or possession that verifies lawful presence, dated 2000 and beyond
 - U.S. Alien Registration Receipt Card (Form I-151) prior to 1978
 - BIA or tribal identification card with photo
 - I-797 Form with expiration date
 - Voter identification card from a state that verifies lawful presence
- c. Official documentation letter from the institution which certifies that the credit earned at Northeast will be accepted as a part of the student’s academic program. Transient students are not required to provide transcripts of previously earned credits at other postsecondary institutions
3. **Non-High School Graduates/Non-GED students must complete the NACC orientation program and placement testing. Students must also provide:**
- a. Admission application
- b. Primary form of identification:
- Unexpired Alabama Driver’s License or instruction permit
 - Unexpired Alabama identification card
 - Unexpired U.S. Passport
 - Unexpired U.S. Permanent Resident Card
 - Resident Alien Card – Pre-1997
 - Unexpired Driver’s License or instruction permit from another state or possession that verifies lawful presence, dated 2000 and beyond
 - U.S. Alien Registration Receipt Card (Form I-151) prior to 1978
 - IA or tribal identification card with photo
 - I-797 Form with expiration date
- Voter identification card from a state that verifies lawful presence
- c. Official transcript – high school (if attended)
- d. Official transcript(s) directly from the institution(s) – any college attended
- e. Written consent from the appropriate secondary administrator if the student is under age 17
- f. Evidence of a required Assessment Score
4. **International Students** – A student who is a citizen of another country is designated as an international student. For the protection of the public and to assist in maintaining state and local security, persons who are not citizens of the United States may not be admitted to any Alabama Community College System institution for the purpose of enrolling in flight training, or in any segment or portion of a flight training program, until appropriate certification and approval have been received from the Office of the Attorney General of the United States, pursuant to Section 113 of the *Aviation Transportation and Security Act*, regulations of the Immigration and Naturalization Service, and all other applicable directives. International students must pay out-of-state tuition. There is no financial aid available for international students. International students must complete the NACC orientation program and placement testing. An international student must provide:
- a. Admission application
- b. Acceptable F1 student VISA
- c. Official transcripts in English that document graduation from a secondary school that is equivalent to a U.S. high school. All domestic transcripts must be mailed directly to Northeast Alabama Community College from the institution attended. Personal copies are not accepted. All foreign transcripts must be evaluated by an approved transcript evaluation service. International students are responsible for contacting a transcript evaluation service such as SPANTRAN: The Evaluation Company and must make arrangements for all necessary fees or requirements. International students must request that an official transcript evaluation be mailed to Northeast Alabama Community College. The transcripts must be evaluated, not just translated.
- d. Official transcripts in English from all colleges and universities previously attended. All domestic transcripts must be mailed directly to Northeast Alabama Community College from the institution attended. Personal copies are not accepted. All foreign transcripts must be evaluated by an approved transcript evaluation service. International students are responsible for contacting a transcript evaluation service such as SPANTRAN: The Evaluation Company and must make arrangements for all necessary fees or requirements. International students must request that an official transcript evaluation

be mailed to Northeast Alabama Community College. The transcripts must be evaluated, not just translated. Students who have achieved a minimum of a Baccalaureate degree are not required to provide high school transcripts and transcripts from other Colleges. Students who have achieved a minimum of a Baccalaureate degree are only required to submit an evaluated transcript from the granting institution.

- e. Official transcript showing a minimum score of 5.5 on the International English Language Testing System (IELTS), a total score of 61 on the Internet-based Test of English as a Foreign Language (TOEFL), a total score of 500 on the paper-based TOEFL, or a 2A on the Step EIKEN Test in Practical English Proficiency.
 - f. A current and valid passport or other official documentation to verify lawful presence.
 - g. A current photo (passport-size, preferred).
 - h. Payment of I-901 Student and Exchange Visitor Information System (SEVIS) Fee.
 - i. A medical health history with proof of vaccinations
 - j. A signed notarized statement dated within the last six months verifying adequate financial support.
 - k. Documentation demonstrating adequate accident, sickness, and life insurance that includes evacuation repatriation, which must be maintained during all periods of enrollment.
 - l. International students transferring from another college must also provide a current Form I-20.
5. **High School Students** – Students currently enrolled in high school may enroll in courses at Northeast if the student is participating in the Dual Enrollment for Dual Credit or Accelerated High School Programs. Students participating in the Dual Enrollment for Dual Credit program must provide:
- a. Dual Enrollment/Accelerated Admissions Application
 - b. Primary form of identification:
 - Unexpired Alabama Driver's or Instruction Permit
 - Unexpired Alabama identification card
 - Unexpired U.S. Passport
 - Unexpired U.S. Permanent Resident Card
 - Resident Alien Card – Pre-1997
 - Unexpired Driver's License or instruction permit from another state possession that verifies lawful presence, dated 2000 and beyond
 - U.S. Alien Registration Receipt Card (Form I-151) prior to 1978
 - BIA or tribal identification card with photo

- I -797 Form with expiration date
- Voter identification card from a state that verifies lawful presence
- Certified copy of a birth certificate that establishes U.S. citizenship and a printout signed and dated by the high school principal of the student's information profile sheet from iNow showing the student's address and photo

- c. Documentation of a minimum (unweighted) high school GPA of 2.5 on a 4.0 scale.
- d. Written approval of the appropriate high school counselor and principal.
- e. Documentation that the student is in grade 10, 11, or 12 or has an exception granted by the Chancellor upon the recommendation of the principal and superintendent in accordance with Alabama Administrative Code §. 290- 8-9.12.

Students participating in the Accelerated High School program must provide:

- a. Dual Enrollment/Accelerated Admissions Application
- b. Primary form of identification
 - Unexpired Alabama Driver's or Instruction Permit
 - Unexpired Alabama identification card
 - Unexpired U.S. Passport
 - Unexpired U.S. Permanent Resident Card
 - Resident Alien Card – Pre-1997
 - Unexpired Driver's License or instruction permit from another state possession that verifies lawful presence, dated 2000 and beyond
 - U.S. Alien Registration Receipt Card (Form I-151) prior to 1978 • BIA or tribal identification card with photo
 - I -797 Form with expiration date
 - Voter identification card from a state that verifies lawful presence
 - Certified copy of a birth certificate that establishes U.S. citizenship and a printout signed and dated by the high school principal of the student's information profile sheet from iNow showing the student's address and photo
- c. Documentation from the local principal or his or her designee certifying that the student has a minimum cumulative 3.0 average on a 4.0 scale.
- d. Written recommendation from the appropriate high school counselor and principal for the student to be admitted in the accelerated program.
- e. Documentation that the student has completed the 10th grade or has an exception granted by the Chancellor upon the recommendation of the principal and superintendent in accordance with Alabama Administrative Code §. 290-8-9.12.

Financial Information

Fees, Cost, and Tuition

Semester Hours	Alabama Resident								Non-Resident									
	Regular Class				Enhancement				Distance Learning	Regular Class				Enhancement				Distance Learning
	Tuition	Facility	Tech	Spec Bldg	Bond	Fee	Total	Tuition		Facility	Tech	Spec Bldg	Bond	Fee	Total			
1	\$125	\$9	\$9	\$10	\$1	\$10	\$164	\$164	\$250	\$9	\$9	\$10	\$1	\$10	\$289	\$289		
2	\$250	\$18	\$18	\$20	\$2	\$20	\$328	\$328	\$500	\$18	\$18	\$20	\$2	\$20	\$578	\$578		
3	\$375	\$27	\$27	\$30	\$3	\$30	\$492	\$492	\$750	\$27	\$27	\$30	\$3	\$30	\$867	\$867		
4	\$500	\$36	\$36	\$40	\$4	\$40	\$656	\$656	\$1,000	\$36	\$36	\$40	\$4	\$40	\$1,156	\$1,156		
5	\$625	\$45	\$45	\$50	\$5	\$50	\$820	\$820	\$1,250	\$45	\$45	\$50	\$5	\$50	\$1,445	\$1,445		
6	\$750	\$54	\$54	\$60	\$6	\$60	\$984	\$984	\$1,500	\$54	\$54	\$60	\$6	\$60	\$1,734	\$1,734		
7	\$875	\$63	\$63	\$70	\$7	\$70	\$1,148	\$1,148	\$1,750	\$63	\$63	\$70	\$7	\$70	\$2,023	\$2,023		
8	\$1,000	\$72	\$72	\$80	\$8	\$80	\$1,312	\$1,312	\$2,000	\$72	\$72	\$80	\$8	\$80	\$2,312	\$2,312		
9	\$1,125	\$81	\$81	\$90	\$9	\$90	\$1,476	\$1,476	\$2,250	\$81	\$81	\$90	\$9	\$90	\$2,601	\$2,601		
10	\$1,250	\$90	\$90	\$100	\$10	\$100	\$1,640	\$1,640	\$2,500	\$90	\$90	\$100	\$10	\$100	\$2,890	\$2,890		
11	\$1,375	\$99	\$99	\$110	\$11	\$110	\$1,804	\$1,804	\$2,750	\$99	\$99	\$110	\$11	\$110	\$3,179	\$3,179		
12	\$1,500	\$108	\$108	\$120	\$12	\$120	\$1,968	\$1,968	\$3,000	\$108	\$108	\$120	\$12	\$120	\$3,468	\$3,468		
13	\$1,625	\$117	\$117	\$130	\$13	\$130	\$2,132	\$2,132	\$3,250	\$117	\$117	\$130	\$13	\$130	\$3,757	\$3,757		
14	\$1,750	\$126	\$126	\$140	\$14	\$140	\$2,296	\$2,296	\$3,500	\$126	\$126	\$140	\$14	\$140	\$4,046	\$4,046		
15	\$1,875	\$135	\$135	\$150	\$15	\$150	\$2,460	\$2,460	\$3,750	\$135	\$135	\$150	\$15	\$150	\$4,335	\$4,335		
16	\$2,000	\$144	\$144	\$160	\$16	\$160	\$2,624	\$2,624	\$4,000	\$144	\$144	\$160	\$16	\$160	\$4,624	\$4,624		
17	\$2,125	\$153	\$153	\$170	\$17	\$170	\$2,788	\$2,788	\$4,250	\$153	\$153	\$170	\$17	\$170	\$4,913	\$4,913		
18	\$2,250	\$162	\$162	\$180	\$18	\$180	\$2,952	\$2,952	\$4,500	\$162	\$162	\$180	\$18	\$180	\$5,202	\$5,202		
19	\$2,375	\$171	\$171	\$190	\$19	\$190	\$3,116	\$3,116	\$4,750	\$171	\$171	\$190	\$19	\$190	\$5,491	\$5,491		
20	\$2,500	\$180	\$180	\$200	\$20	\$200	\$3,280	\$3,280	\$5,000	\$180	\$180	\$200	\$20	\$200	\$5,780	\$5,780		
21	\$2,625	\$189	\$189	\$210	\$21	\$210	\$3,444	\$3,444	\$5,250	\$189	\$189	\$210	\$21	\$210	\$6,069	\$6,069		
22	\$2,750	\$198	\$198	\$220	\$22	\$220	\$3,608	\$3,608	\$5,500	\$198	\$198	\$220	\$22	\$220	\$6,358	\$6,358		
23	\$2,875	\$207	\$207	\$230	\$23	\$230	\$3,772	\$3,772	\$5,750	\$207	\$207	\$230	\$23	\$230	\$6,647	\$6,647		
24	\$3,000	\$216	\$216	\$240	\$24	\$240	\$3,936	\$3,936	\$6,000	\$216	\$216	\$240	\$24	\$240	\$6,936	\$6,936		

2022-2023 Tuition and Fees Addendum to include the Enhancement Fee.

Northeast Alabama Community College will not charge VA students a penalty/late fee if unable to meet financial obligation due to delayed disbursement by the U.S. Department of Veteran Affairs (PL 115-407 Sec. 103).

Other Costs

Late Registration Fee (incurred if registration is not completed on designated date without special provision being made)	25.00
Returned Check Fee	25.00
Graduation Expense: A fee of the actual cost of graduation is charge	

Fees for drops/adds, parking decals, transcripts, and applications have been eliminated.

Students may pay tuition and fees by check, cash, money order, MasterCard, Visa, or Discover Card.

**FEES AND TUITION ARE SUBJECT TO CHANGE
WITHOUT NOTICE UPON ACTION BY THE
COLLEGE'S GOVERNING BODY.**

Guidelines for Determining Student Eligibility for "In-State" or "Out-of-State" Tuition Rates

For purposes of assessing tuition, applicants for admission shall be classified in one of three categories as outlined below:

1.1 Resident Student

A Resident Student shall be charged the in-state tuition rate established by the Board.

- 1.11 A Resident Student is an applicant for admission who is a citizen of the United States or a duly registered resident in the State of Alabama for at least 12 months immediately preceding application for admission, or whose non-estranged

spouse has resided and had habitation, home and permanent abode in the State of Alabama for at least 12 months immediately preceding application for admission.

Consequently, an out-of-state student cannot attain Resident Student status simply by attending school for twelve months in the State of Alabama.

- 1.12 In the case of minor dependents seeking admission, the parents, parent, or legal guardian of such minor dependent must have resided in the State of Alabama for at least 12 months immediately preceding application for admission. If the parents are divorced, residence will be determined by the residency of the parent to whom the court has granted custody.

MINOR: An individual who because of age, lacks the capacity to contract under Alabama law. Under current law, this means a single individual under 19 years of age and a married individual under 18 years of age, but excludes an individual whose disabilities of nonage have been removed by a court of competent jurisdiction for a reason other than establishing a legal residence in Alabama. If current law changes, this definition shall change accordingly.

SUPPORTING PERSON: Either or both of the parents of the student, if the parents are living together, or if the parents are divorced or living separately, then either the parent having legal custody or, if different, the parent providing the greater amount of financial support. If both parents are deceased or if neither has legal custody, supporting person shall mean, in the following order: the legal custodian of the student, the guardian, and the conservator.

- 1.13 In determining Resident Student status for the purpose of charging tuition, the burden of proof lies with the applicant for admission
 - a. Students having graduated from an Alabama high school, or having obtained a GED in the state of Alabama, within two years of the date of application for admission shall be considered Residential students for tuition purposes.
 - b. An individual claiming to be a resident shall certify by a signed statement each of the following:
 1. A specific address or location within the State of Alabama as his or her residence.
 2. An intention to remain at this address indefinitely.
 3. Possession of more substantial connections with the State of Alabama than with any other state.
 - c. Though certification of an address and an intent to remain in the state indefinitely shall be prerequisites to establishing status as a resident, ultimate determination of that status shall be made by the institution by evaluating the presence or absence of connections with

the State of Alabama. This evaluation shall include the consideration of all of the following connections.

1. Consideration of the location of high school graduation.
 2. Payment of Alabama state income taxes as a resident.
 3. Ownership of a residence or other real property in the state and payment of state ad valorem taxes on the residence or property.
 4. Full-time employment in the state.
 5. Residence in the state of a spouse, parents, or children.
 6. Previous periods of residency in the state continuing for one year or more.
 7. Voter registration and voting in the state; more significantly, continuing voter registration in the state that initially occurred at least one year prior to the initial registration of the student in Alabama at a public institution of higher education.
 8. Possession of state or local licenses to do business or practice a profession in the state.
 9. Ownership of personal property in the state, payment of state taxes on the property, and possession of state license plates.
 10. Continuous physical presence in the state for a purpose other than attending school, except for temporary absences for travel, military service, and temporary employment.
 11. Membership in religious, professional, business, civic, or social organizations in the state.
 12. Maintenance in the state of checking and savings accounts, safe deposit boxes, or investment accounts.
 13. In-state address shown on selective service registration, driver's license, automobile title registration, hunting and fishing licenses, insurance policies, stock and bond registrations, last will and testament, annuities, or retirement plans.
- 1.14 Students determined to be eligible for resident tuition will maintain that eligibility upon reenrollment within one full academic year of their most previous enrollment unless there is evidence that the student subsequently has abandoned resident status, for example, registering to vote in another state. Students failing to re-enroll within one full academic year must establish eligibility upon re-enrollment

2.1 Non-Resident Student (additional persons for resident tuition)

A Non-Resident Student, one who does not meet the standard of having resided in the State of Alabama for at

least 12 months immediately preceding application for admission, shall be charged the in-state tuition rate established by the Board under the following circumstances, provided such student is a citizen of the United States.

- 2.11 The dependent student
 - a. whose supporting person is a full-time permanent employee of the institution at which the student is registering; or
 - b. whose supporting person can verify full-time permanent employment in Alabama and will commence said employment within 90 days of registration; or
 - c. whose supporting person is a member of the United States military on full-time active duty stationed in Alabama under orders for duties other than attending school; or
 - d. whose supporting person is an accredited member of a consular staff assigned to duties in Alabama.
- 2.12 The student is not a dependent (as defined by Internal Revenue Codes) who
 - a. is a full-time permanent employee of the institution at which the student is registering or is the spouse of such an employee; or
 - b. can verify full-time permanent employment within the State of Alabama or is the spouse of such an employee and will commence said employment within 90 days of registration with the institution; or
 - c. is a member of or the spouse of a member of the United States military on full-time active duty stationed in Alabama under orders for duties other than attending school; or
 - d. is an accredited member of or the spouse of an accredited member of a consular staff assigned to duties in Alabama
- 2.13 In determining Non-Resident Student status for the purpose of charging tuition, the burden of proof lies with the applicant for admission. The college may request proof that the applicant meets the stipulations noted above prior to admission.

Refund Policy

1. Refund for Complete Withdrawal

A student who officially or unofficially withdraws from all classes before the first day of class will be refunded the total tuition and other institutional charges.

all tuition and other institutional charges. A student who officially withdraws completely on or after the first day of class but prior to the end of the third week of class will be refunded according to the withdrawal date, as follows:

- Withdrawal during first week 75% of tuition and other institutional charges
- Withdrawal during second week 50% of tuition and other institutional charges
- Withdrawal during third week 25% of tuition and other institutional charges
- Withdrawal after end of third week No refund

2. Administrative Fee

An administrative fee not to exceed 5 percent of tuition and other institutional charges shall be assessed for each withdrawal within the period beginning the first day of class and ending at the end of the third week of class.

3. Refund for Partial Withdrawal

Students who do not completely withdraw from the college but drop a class during the regular drop/add period will be refunded the difference in tuition paid and the tuition rate applicable to the reduced number of hours, including fees appropriate to the classes dropped. There is no refund due to a student who partially withdraws after the official drop/ add period.

4. Refund in Compliance with Federal Regulations

All colleges shall comply with federal regulations relative to the return of Title IV funds.

5. Refund for Alabama National Guard and Reservists Called to Active Duty

Students who are active members of the Alabama National Guard or reservists or who are active duty military who are called to active duty in the time of national crisis shall receive a full tuition refund at the time of withdrawal, if such student is unable to complete the term due to active duty orders or assignment to another location.

Payment Plan

Students can set up a payment plan for their tuition and fees through the MyNACC student portal. Our payment plan provides a flexible payment option with no interest and a \$40 set up fee.

Registration Process for Institutional, Private, And Agency Scholarships

Each semester a student must meet with the academic advisor to pre-register for classes online through the MyNACC account. A student may pre-register online only if authorized by the advisor. Recipients of private scholarships (civic clubs, churches, corporations and businesses, etc.) should take proof of scholarship to the Financial Aid Office. Students will also need to complete a Scholarship Processing Form for each private scholarship they are awarded. Scholarship Processing Forms are available on the website and in the Financial Aid Office. Students whose tuition is being paid by an agency or governmental source (WIOA, TRA, GI Dependents, Voc Rehab, VA Rehab) should see the Financial Aid Office.

Scholarships

Institutional scholarships are provided by Northeast, as authorized by the Alabama Community College System, to high school seniors who will attend Northeast. Students must complete the "Scholarship Application" to qualify for institutional scholarships. These applications are provided on the NACC website in November of each year. The deadline to apply is late January.

Agency Sponsorship Programs

Northeast participates in the following agency programs which assist qualified students with funding and/or services:

- WORKFORCE INVESTMENT OPPORTUNITY ACT (WIOA)
- TRADE READJUSTMENT ACT (TRA) V
- VETERANS ADMINISTRATION REHABILITATION
- VOCATIONAL REHABILITATION
- ALABAMA COMMISSION ON INDIAN AFFAIRS

Northeast will assist students interested in these programs by referring them to the proper sponsorship agency and by coordinating funding and services provided by an agency.

Employer Sponsored Programs

Northeast also coordinates employer sponsorship programs through the Financial Aid Office. Contact Mallory Woodall.

GED Scholarship

GED recipients are eligible to apply for the Northeast Alabama Community College GED scholarship. Full tuition, two-year scholarships and summer scholarships are available. Applications are due by the middle of April, and scholarship recipients are announced at the annual Adult Education Graduation Ceremony. Additionally, any person who passes the GED can receive one free class to any community college in the state of Alabama. For more information about these scholarship opportunities, please contact Taña Andres at andrest@nacc.edu.

Senior Adult Scholarship Program

The Alabama Community College System has authorized a Senior Adult Scholarship Program at Northeast. The scholarship automatically waives tuition for college-credit courses for any student who is 60 years of age or older and who meets the admissions standards of the College and program. The scholarships apply only to credit courses in which space is available and only to tuition. Participants are responsible for paying for all course fees, textbooks, materials and supplies.

Alabama G.I. Dependent Scholarship Program

Alabama Department of Veterans Affairs offers financial assistance to eligible dependents (child, stepchild, spouse or unremarried widow(er)) of disabled veterans (living or deceased) who were permanent civilian residents of Alabama prior to entry into military service. Special consideration is given to permanently and totally disabled veterans who are bona fide residents or were prior to their death. Other qualifying veterans' categories are former prisoners of war (POW), declared missing in action (MIA) and those who died in service.

Maximum educational benefits include free tuition, required textbooks and laboratory fees for four standard academic years or a prescribed technical course at any state supported junior or community college, university or technical school. Currently, participants must pay \$9 per credit hour for facility renewal fee, and \$10 per credit hour for Special Building fee. This program will not pay for tuition or books for developmental courses.

Dependent children must file an application prior to age 26 (may be extended to age 30 in certain cases). A spouse or widow(er) does not have a filing deadline or age limitation.

For more information and application procedures, contact your nearest Veterans Affairs Office located in each county courthouse or you may write to the Alabama G.I. Dependents' Scholarship Program, P.O. Box 1509, Montgomery, AL 361021509.

Students who qualify for Alabama benefits (books and tuition) should contact the Financial Aid Office.

VA Educational Benefits (Monthly Check Programs)

The college is approved for veterans' training. Students who are eligible for monthly VA educational assistance checks should contact the Financial Aid Office in the Wallace Building for additional information. This office will submit the proper paperwork to the Veterans' Administration on behalf of veterans, GI Dependents who are eligible for Chapter 35 (federal) benefits, National Guardsmen/Reservists, and VA Rehabilitation students.

The following individuals shall be charged the in-state/in-district rate, or otherwise considered a resident, for tuition purposes:

- A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38, United States Code, who lives in the State of Alabama while attending a school located in the State of Alabama (regardless of his/her

formal State of residence) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.

- Anyone using transferred Post-9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in Alabama while attending a school located in Alabama (regardless of his/her formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in the State of Alabama while attending a school located in the State of Alabama (regardless of his/her formal State of residence) and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or death described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.
- Anyone using transferred Post 9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in Alabama while attending a school located in Alabama (regardless of his/her formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.
- Anyone using educational assistance under Chapter 31, Vocational Rehabilitation/Employment (VR&E), also be charged the resident rate. Effective for courses and terms beginning after March 1, 2019.
- Terms beginning 8/1/2019 and thereafter – Students utilizing VA Educational Benefits shall not be charged a penalty, including the assessment of late fees, denial of access to classes, libraries, or other institutional facilities, or be required to borrow additional funds because of the individual's inability to meet their financial obligations due to the delayed disbursement of a payment to be provided by the Department of Veterans Affairs.

Suspension from VA Benefits

It is the policy for VA educational benefits recipients at Northeast to achieve certain academic standards of progress satisfactory to the Veterans Administration's rules and regulations. Therefore, in order to comply with the Veterans Administration G.I. Bill of Rights, the following minimal cumulative grade point averages must be achieved:

1-24 semester hours	1.5
25-48 semester hours	1.75
49 or more semester hours	2.0

It is not intended for this policy to be in conflict with approved institutional policies relative to probation and suspension. There may be cases in which a VA educational benefits recipient could remain enrolled at Northeast as a regular student who could not make these minimal cumulative grade point averages; however, he or she would be suspended from VA educational assistance payments.

Complaint Policy for Students Receiving VA

Education Benefits – For students receiving VA education benefits, any complaint against the school should be routed through the VA GI Bill™ Feedback System by going to the following link:

<http://www.benefits.va.gov/GIBILL/Feedback.asp>. The VA will then follow up through the appropriate channels to investigate the complaint and resolve it satisfactorily

Financial Aid Program

- **A FAFSA (Free Application for Federal Student Aid) must be submitted to determine eligibility for financial assistance including: Pell, student loans, Alabama Student Assistance Program Grant, Federal Supplemental Educational Opportunity Grant, Federal Work-Study and certain scholarships. www.studentaid.gov**
- **Students will also need to obtain a FSA ID at www.studentaid.gov to e-sign the FAFSA. Parents of dependent students must obtain a FSA ID, also.**

To have funds available by the first day of class, students should complete the FAFSA 3 to 4 weeks in advance. All additional paperwork will need to be turned in within 2 weeks of the first day of class.

Special Circumstance

Eligibility is normally based upon the prior year's income. Under certain circumstances, however, eligibility may be based on current income. Death of a parent or a spouse, loss of income due to natural disaster, unemployment or displaced worker status may allow one to file for special conditions and base eligibility on current income. A student with one of these conditions should contact the Financial Aid Office.

General Information

The objective of the Financial Aid Program is to assist students who have a financial need by providing an aid package that may include scholarships, grants, loans and work on campus.

The primary responsibility for meeting college costs lies with the student's family and with the student. A financial need is established when it is determined that the resources of the family (expected family contribution) do not meet the cost of attending a particular college. Costs include items such as board, books and supplies, personal expenses and allowable transportation costs. For financial aid purposes, the cost of attendance

budget for dependent and independent students is \$14,160. A student's computed financial need is the total cost of attending a particular college minus the expected family contribution.

Any student enrolled or any prospective student may apply for financial aid. However, no offer of financial assistance will be made until the student has been accepted for admission.

Verification of Student Aid

Verification is a process used to make sure that the information applicants report is accurate. This prevents ineligible students from receiving aid by reporting false information, and it ensures that eligible students receive all of the aid for which they are qualified.

Each year the Department of Education selects a group of applications for verification. Some of these applicants are selected because of FAFSA information that is inconsistent with information elsewhere on the application; others are chosen at random.

In any case, a student whose application is selected must give the financial aid office certain documentation to show that the application information is correct. The sooner the student verifies this information, the sooner he/she will be able to receive financial aid, if eligible.

The Student Must Apply for Aid Each School Year. At Northeast, Fall always begins the new year and Summer is always the last semester.

The priority deadline to apply for financial aid is July 15th. FSEOG funds and ASAP funds are awarded to those students with the greatest need. Students who apply after the priority deadline are given consideration only if funds are available.

Federal Title IV Aid and Programs Available (Need Based)

FEDERAL PELL GRANT – The Pell Grant is an entitlement program which does not have to be repaid. The award will range from \$661 – \$6,495 per academic year. Pell Grant payments will be paid to eligible students who have a completed Financial Aid File. Pell Grant money will be available for book purchases at Textbooks, Etc. one week prior to first day of class. Any funds remaining will be paid directly to the student by check. The Business Office will issue and mail checks within 14 calendar days after the first day of class.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG) – The Federal Supplemental Educational Opportunity Grant may range from \$100 to \$1,200 per academic year and does not have to be repaid. It is based on the lowest expected family contribution (EFC). The Business Office will issue and mail checks in a timely manner.

ALABAMA STUDENT ASSISTANCE PROGRAM GRANT (ASAP) – The Alabama Student Assistance Program Grant may range from \$300 to \$1,200 per academic year and is determined by the lowest Expected Family Contribution (EFC) number and need based. The Business Office will issue and mail checks in a timely manner.

FEDERAL COLLEGE WORK-STUDY – Federal College Work-Study provides jobs on campus for students who need financial aid and who must earn a part of their educational expenses. Students work an average of 15 hours per week at the minimum wage rate and are paid at the end of each month. Limited positions are available each year. The Business Office will issue checks on the last day of each month.

Direct Loans

To receive a Direct Loan, students

- **Must have submitted a FAFSA.**
- **MUST complete required loan counseling in the Financial Aid Office.**

William D. Ford Federal Direct Loans are either subsidized or unsubsidized. Repayment of these loans will begin six months after the student's enrollment level drops below half-time. With a subsidized loan you will not be charged any interest while enrolled. With an unsubsidized loan you will be charged interest from the time the loan is disbursed until it is paid in full.

The William D. Ford Federal Direct Loans are need-based loans. Annual loan limits will be determined using information received from the Free Application for Federal Student Aid (FAFSA).

Enrollment Policy

Students must be enrolled or accepted for enrollment in a program leading to a degree or certificate from Northeast. Students admitted as special, dual enrolled temporary, transient, post-baccalaureate, and non-degree graduate do not meet this requirement. Students will not be paid retroactively for terms for which they were classified as ineligible. The list below can be used to determine your status

- Full time: 12-24 plus semester credit hours
- 3/4 time: 9-11 semester credit hours
- 1/2 time: 6-8 semester credit hours
- 1/4 time: 1-5 semester credit hours

Dependent/Independent Policy

The Federal Government has identified, for student financial assistance programs, certain categories of students who must be considered independent financial aid applicants. For 2021-2022, a student is considered an independent financial aid applicant if he or she meets one of the following criteria:

- was born before January 1, 1998
- is a veteran of the U.S. Armed Forces
- is an orphan or ward of the court
- has a legal dependent other than a spouse
- is a married student
- is a graduate or professional student
- see FAFSA Application

An independent financial aid applicant is not required to submit parental information in the application process.

However, if the independent applicant is married, spousal information must be reported. A student who cannot meet at least one of the criteria is considered a dependent applicant and must provide parental information in the application process.

Northeast Alabama Community College Return of Title IV Student Financial Aid Funds for Withdrawals

Sec. 484B, 485(a)(1)(F), 34 CFR 668.22 The Higher Education Amendments of 1998, Public Law 105-244

The Higher Education Amendments of 1998, Public Law 105-244 changed substantially the way funds paid toward a student's education are to be handled when a recipient of Student Financial Aid Program funds withdraws from school.

Up through the 60% point in each payment period or period of enrollment, a pro rata schedule is used to determine how much Student Financial Aid (SFA) Program funds the student has earned at the time of withdrawal. After the 60% point in the payment period or period of enrollment, a student has earned 100% of the SFA Program funds.

Calculation of Amount of SFA Program Assistance Earned

The amount of SFA Program assistance earned by the student is determined by multiplying the percentage of the payment period completed by the total amount of SFA Program assistance that was disbursed or that could have been disbursed for the payment period or period of enrollment as of the day the student withdrew.

Percentage of the Payment Period or Period of Enrollment Completed

The percentage of the payment period or period of enrollment completed is the total number of calendar days in the payment period or period of enrollment for which the assistance is awarded divided into the number of calendar days completed in that period as of the day the student withdrew.

Disposition of Differences between Amount Earned and Amount Received

If the student receives less SFA Program assistance than the amount earned, the school must comply with the procedures for late disbursement specified by the Department in regulations. If the student receives more SFA Program assistance than the amount earned, the school, or the student, or both, must return the unearned funds as required, and in the order specified, below.

Return of Unearned SFA Program Funds

Northeast Alabama Community College must return the lesser of

- The amount of SFA Program funds that the student does not earn; or
- The amount of institutional costs that the student incurred for the payment period or period of enrollment multiplied by the percentage of funds that was not earned.
- The student must return or repay, as appropriate, the remaining unearned SFA Program grant funds.

Method of Return of Funds by the Student

Grant overpayments are subject to repayment arrangements satisfactory to the school, or overpayment collection procedures prescribed by the Secretary of Education. In the event of overpayment, students will be notified of terms of repayment.

Order of Return of SFA Program Funds

- Federal Student Loan
- Federal Pell Grants for the payment period for which a return of funds is required.
- Federal Supplemental Educational Opportunity Grants (FSEOG) for the payment period for which a return of funds is required.
- Other assistance under this Title for which a return of funds is required.

Typical cost of education for students attending Northeast Alabama Community College during the academic year 2021- 2022 is:

Tuition/fees (in-state)	\$4,860
Books/Supplies	2,400
Room/Board	3,500
Transportation	2,400
Personal/Miscellaneous	1,000
Total	\$14,160

Northeast Alabama Community College students who register for classes, benefit from Title IV student

financial aid and then withdraw are subject to the withdrawal policy as stated in the Higher Education Amendments of 1998.

Students who do not repay will be reported to the Federal government for collection.

Procedures for Students in Default of Loans

Students who owe a repayment on Title IV funds or who are in default on a federal loan are not eligible to receive Title IV funds and will have a hold placed on their file for registration and for requesting an official transcript.

Students in default of a federal loan must see the Student Financial Aid Director who will counsel the student concerning his/her financial obligations and assist the student in contacting the lender. The Student Financial Aid Director will determine whether the student can enroll or receive an official transcript once satisfactory repayment arrangements have begun.

Follow-up counseling sessions will be scheduled each semester until the student is taken out of default status. Students who refuse to adhere to the counseling schedule will not be permitted to enroll in subsequent semesters or receive an academic transcript.

When reimbursement of Title IV funds has been made or a loan has been taken out of default, the student can be reinstated for financial aid, register for classes and become eligible to receive official transcripts without review by the Student Financial Aid Director.

Academic Requirements for Receiving Financial Aid Satisfactory Academic Progress Requirement

The Higher Education Act of 1965, as amended, mandates that institutions of higher education establish a standard of satisfactory academic progress for students who receive financial aid. This standard will apply to the student's entire college academic history at NACC and/or other colleges, whether Title IV financial aid was received or not. In order to remain eligible to receive aid at Northeast Alabama Community College, students must meet the standards specified for acceptable academic performance and for satisfactory progress toward completion of their program of study.

Incremental Progress. To receive financial aid at Northeast Alabama Community College, a student must achieve the completion rate below:

Quantitative-Pace of Progression (PACE) – Completion rate (attempted class hours)

- If the student has attempted 0-21 hours, 58% completion rate.

- If the student attempted 22-32 hours, 62% completion rate.
- If the student attempted 33 or more hours, 67% completion rate

Academic Progress. To receive financial aid at Northeast Alabama Community College, a student must maintain the following Grade Point Average (GPA) of 2.0.

GPA requirements:

- If the student attempted 0-21 hours, 1.5 GPA required.
- If the student attempted 22-32 hours, 1.75 GPA required.
- If the student attempted 33 or more hours, 2.0 GPA required.

Maximum Time Frame. Students may receive consideration for financial aid during the first 96 hours of coursework attempted at Northeast Alabama Community College for a two-year program; eligibility is limited to 45 hours of attempted coursework for a one-year certificate program. This applies regardless of whether or not the student received financial aid for coursework. Students may receive funding for up to 30 hours of required remedial coursework.

Review Procedures

Satisfactory progress is measured at the end of each semester. The Student Financial Aid Office will determine each semester whether the student has successfully completed the minimum expected number of hours with the required grade point average and shows progress toward the educational objectives for all completed semesters.

A grade of "W" will be treated as attempted coursework and will be computed in the quantitative measure of satisfactory academic progress.

Grades of "A," "B," "C," "D," "F," and "I" will be treated as completed grades and will be taken into consideration when calculating the number of hours completed and the GPA.

Course Repeats

Courses for which a "A," "B," "C," or "D" was received may be repeated a maximum of one time. Such courses are counted as enrollments toward the hours attempted for calculation of required grade point average and the maximum time the student is eligible to receive aid.

Financial Aid will not be provided for courses taken by audit, nor for any non-credit coursework not leading to a certificate or degree.

Financial Aid Warning/Probation/ Suspension/Termination

Following the first semester in which the standards of academic progress are not met, the student will be placed on warning for the next semester. The student who fails to meet the standards of academic progress during the semester of attendance while on warning will be placed on suspension for financial aid purposes and denied further funding. Students who are suspended from aid may become eligible again, by bringing themselves into compliance with the requirements at their own expense. Students who have attempted 96/45 hours (see maximum time frame) are automatically ineligible for financial aid and are placed on financial aid termination.

Appeal

A student whose financial aid has been suspended or terminated may submit an appeal to the Director of Financial Aid for consideration of mitigating circumstances. Appeal forms are available in the Student Financial Aid Office. The appeal must be in writing and supporting documentation regarding special circumstances must be provided. Appeals are considered for extenuating circumstances such as serious personal injury, illness, death in the immediate family or undue hardship. Students who have their appeals approved will continue on financial aid probation with academic plan provided the student meets the terms and conditions set forth in the appeal approval letter.

Academic Requirements and Regulations

Grading System

Letter grades will be assigned for all courses for which students have registered as follows:

- A — Excellent
- B — Good
- C — Average
- D — Poor
- F — Failure
- W — Withdrawal
- I — Incomplete
- AU — Audit

Satisfactory grades are A, B, and C. Although D is a pass, it is not considered as satisfactory work. Students must hold a C average to graduate. The Associate Degree Nursing, Practical Nursing, and Emergency Medical Services Programs are governed by separate grading policies.

A grade of W is assigned to all students who officially withdraw. A grade of W will not be used in computing the student's semester grade point average.

Failure to officially withdraw results in a grade of F.

A grade of F will be assigned to a student who fails to meet the requirements of a course.

If a grade of I (Incomplete) is granted by an instructor, the student must complete the course in the following semester. If the student fails to complete the course during the following semester, the Incomplete automatically becomes an F.

A student who wishes to audit a course must have the permission of the instructor concerned. Students enrolling as auditors follow the regular admission and registration procedures and are governed by the regulations applied to regular students. An auditor pays the regular course fees, but is not required to participate in class discussions, take tests, make reports, and take the final examination and does not receive credit. The auditor is listed on the class roll and receives Audit on the final grade report. Students may change from Credit to Audit or from Audit to Credit only during the "Drop-Add" period at the beginning of the semester but may not change thereafter.

Course Cancellation

College staff will notify students that the class has been cancelled and that the student will need to revise his/her schedule. If the student does not change his/her schedule, College staff will drop the student from the cancelled course.

Course Forgiveness

It is the student's responsibility to request course forgiveness. Course forgiveness is implemented when a student repeats a course and the last grade awarded (excluding grades of W and WP) replaces the previous grade in the computation of the cumulative grade point average. The official transcript will list the course and grade each time it is attempted.

Official transcripts will list each course in which a student was enrolled.

A student may repeat a course more than once, but that course may be counted only once toward fulfillment of credit hours for graduation.

NOTE: STUDENTS SHOULD CHECK FINANCIAL AID REGULATIONS REGARDING REPETITION OF COURSES

Academic Bankruptcy

Academic bankruptcy is the removal of one to three semesters of grades from the calculation of a student's cumulative grade point average (GPA). The following apply to any request for academic bankruptcy:

1. Academic bankruptcy is initiated by a written request from the student to the registrar/records official.
2. Upon receipt of the student's request, the college will inform the student that an award of academic bankruptcy may impact his/her financial aid status.
3. Academic bankruptcy may only be declared once and may be applied to no more than three (3) semesters, which do not have to be consecutive.
4. The bankrupted courses and grades remain on the transcript but are not calculated in the student's cumulative GPA.
5. None of the coursework taken during a semester for which academic bankruptcy is declared, including hours completed satisfactorily, will be used to fulfill degree requirements.
6. Developmental courses successfully completed during a period of academic bankruptcy can be used to fulfill prerequisites.
7. To be eligible for academic bankruptcy, the student must have completed 12 semester credit hours of coursework at the college since the most recent semester for which the academic bankruptcy is requested. A grade of "C", "S", or higher is required in each course in 12 semester credit hours in the post-bankruptcy period.
8. When a student receives a declaration of academic bankruptcy, a permanent notation of "ACADEMIC BANKRUPTCY" will be reflected on the transcript for each semester affected.
9. Approval of the academic bankruptcy status at a college does not guarantee other institutions will honor that status. This determination will be made by the respective transfer institution(s).

Quality Points

To evaluate the academic standing of students, the following quality points are assigned to grades:

- A— 4 quality points per hour
- B— 3 quality points per hour
- C— 2 quality points per hour
- D— 1 quality point per hour
- F— 0 quality points per hour

The student's academic standing or quality point average is obtained by dividing the total number of quality points by the total number of attempted semester credit hours for which the grades of A, B, C, D, or F are assigned. A course repeated is counted as many times as such grades are recorded.

Graduation Requirements, Degrees, and Certificates

NACC is authorized to award the Associate in Arts (AA) Degree, Associate in Science (AS) Degree, Associate in Applied Science (AAS) Degree, Certificate (CER), CTE Short Term Certificate (STC) and the General Education Short Term Certificate (STC). A student will be

considered a graduate upon satisfactory completion of the requirements of the specific program. A student must:

1. Earn a 2.0 cumulative grade point average in all courses attempted at the institution. A course may be counted only once for purposes of meeting graduation requirements.
2. Complete at least 25 percent of the semester credit hours counted for the degree or certificate at NACC.
3. Have the approval from the chief academic officer indicating the student has obtained satisfactory completion of the requirements of the specific program.

A student is not required to pay graduation fees or participate in commencement ceremonies in order to be designated as a graduate on the transcript. Transcripts will not be provided to a student nor forwarded to any other institution or organization until after the student has fulfilled all financial obligations to the institution.

Academic Honors: Upon Graduation

Superior academic achievement by graduating students shall be recognized by the following designations on transcripts:

Graduation with Honors (or <i>Cum Laude</i>)	3.50 to 3.69 GPA
Graduation with High Honors (or <i>Magna Cum Laude</i>)	3.70 to 3.89 GPA
Graduation with Highest Honors (or <i>Summa Cum Laude</i>)	3.90 to 4.00 GPA
Graduation Honors for Other Formal Awards (Diploma or Certificate) Graduation with Distinction	3.50 to 4.00 GPA

NOTE: Calculation of the grade point average (GPA) for graduation honors shall be identical to that method used to calculate the GPA to fulfill graduation requirements for the degree, diploma, or certificate being earned. In addition, in order to be eligible for a graduation honor, the student must have completed a minimum of 24 semester credit hours at the college conferring the degree or other formal award.

Degree Requirements

Northeast Alabama Community College is authorized to award the Associate in Arts degree, the Associate in Science degree, and the Associate in Applied Science degree. The Associate in Arts degree and the Associate in Science degree are two-year transfer degree programs; that is, a student in one of these degree programs intends to transfer to a four-year college or university and obtain a baccalaureate degree. The Associate in Applied Science degree is a two-year terminal degree program; however, some colleges and

universities will transfer a number of credits from the A.A.S. degree program to apply to baccalaureate degrees at their institutions.

Thanks to the work of the Articulation and General Studies Committee (AGSC), a statewide general studies curriculum has been developed, and strategies for articulation of transfer credit among public two-year and four-year institutions of higher education in Alabama have been implemented. Coursework in Areas I through IV, regardless of the student's major, transfers to all public four-year colleges and universities in Alabama.

Coursework in Area V for students in the Associate in Arts and the Associate in Science degree programs also transfers; Area V coursework for students in the Associate in Applied Science degree program may transfer to some institutions, depending on the student's major and four-year institution. Regardless of which degree a student is seeking, the student should be mindful of the requirements at the four-year institution to which he/she plans to transfer. For additional information, the student should consult this catalog and the following website address: <http://stars.troy.edu>.

It is the student's responsibility to stay informed about STARS and the senior institution's requirements regarding individual programs of study.

Core Courses

Based on Alabama's articulation system, the following "core courses" are guaranteed to transfer to any public college in Alabama to satisfy degree requirements in Areas I-IV. Courses not listed in the core may satisfy graduation requirements at Northeast and also may be accepted for transfer to other colleges. Please consult your advisor for additional information.

Area I — Written Composition

[ENG 101](#) English Composition I
[ENG 102](#) English Composition II

Area II — Humanities and Fine Arts

[ART 100](#) Art Appreciation
[ART 203](#) Art History I
[ART 204](#) Art History II
[ENG 251](#) American Literature I
[ENG 252](#) American Literature II
[ENG 261](#) English Literature I
[ENG 262](#) English Literature II
[ENG 271](#) World Literature I
[ENG 272](#) World Literature II
[MUS 101](#) Music Appreciation
[PHL 206](#) Ethics and Society
[REL 100](#) History of World Religions
[REL 151](#) Survey of Old Testament
[REL 152](#) Survey of New Testament
[SPA 101](#) Introductory Spanish I
[SPA 102](#) Introductory Spanish II
[SPA 201](#) Intermediate Spanish I
[SPA 202](#) Intermediate Spanish II

[SPH 107](#) Fundamentals of Public Speaking
[THR 120](#) Theatre Appreciation
[THR 126](#) Introduction to Theatre

Area III — Natural Sciences and Mathematics

[BIO 103](#) Principles of Biology I
[BIO 104](#) Principles of Biology II
[CHM 104](#) Introduction to Inorganic Chemistry
[CHM 105](#) Introduction to Organic Chemistry
[CHM 111](#) College Chemistry I
[CHM 112](#) College Chemistry II
[MTH 110](#) Finite Mathematics
[MTH 112](#) Precalculus Algebra
[MTH 113](#) Precalculus Trigonometry
[MTH 120](#) Calculus and Its Applications
[MTH 125](#) Calculus I
[MTH 126](#) Calculus II
[MTH 227](#) Calculus III
[MTH 237](#) Linear Algebra
[MTH 238](#) Applied Differential Equations I
[PHS 111](#) Physical Science I
[PHS 112](#) Physical Science II
[PHY 201](#) General Physics I
[PHY 202](#) General Physics II
[PHY 213](#) General Physics with Calculus I
[PHY 214](#) General Physics with Calculus II

Area IV— History, Social, and Behavioral Sciences

[ECO 231](#) Principles of Macroeconomics
[ECO 232](#) Principles of Microeconomics
[GEO 100](#) World Regional Geography
[HIS 101](#) Western Civilization I
[HIS 102](#) Western Civilization II
[HIS 201](#) United States History I
[HIS 202](#) United States History II
[POL 211](#) American National Government
[PSY 200](#) General Psychology
[PSY 210](#) Human Growth & Development
[SOC 200](#) Introduction to Sociology
[SOC 210](#) Social Problems

The General Education Programs for the A.A., A.S., and A.A.S. Degrees is comprised of a minimum of 15 semester hours of course work with at least one course from each of the following: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. These courses comprise a substantial component of the A.A., A.S., and A.A.S., Degrees and include a breadth of knowledge appropriate for the collegiate-level student, not narrowly focusing on skills, techniques, and procedures specific to a particular occupation or profession.

The following table designates the General Education Component which applies to all students—on campus, off-site, and distance education students. By following the appropriate transfer guide the student will be required to complete a minimum of one course in each of the following three areas:

General Education Component

Humanities/Fine Arts

The following are considered pure humanities/arts courses:

ART 100	ENG 262	REL 151
ART 203	ENG 271	REL 152
ART 204	ENG 272	SPA 201
ENG 251	MUS 101	SPA 202
ENG 252	PHL 206	THR 120
ENG 261	REL 100	THR 126
Social/Behavioral Sciences		
ECO 231	HIS 102	PSY 200
ECO 232	HIS 201	PSY 210
GEO 100	HIS 202	SOC 210
Natural Science/Mathematics		
BIO 103	MTH 103*	MTH 238
BIO 104	MTH 116*	PHS 111
BIO 201*	MTH 110	PHS 112
BIO 202*	MTH 112	PHS 121*
BIO 220*	MTH 113	PHY 115*
CHM 104	MTH 120	PHY 120
CHM 105	MTH 125	PHY 201
CHM 111	MTH 126	PHY 202
CHM 112	MTH 227	PHY 213
MTH 100*	MTH 237	PHY 214

**Designates A.A.S. Degree Program only.*

Other courses which comprise the general education program at NACC include ENG 101 English Composition I and SPH 107 Fundamentals of Public Speaking. Note that neither of these courses are considered the one pure humanities course required of all students in all degree programs.

Student Learning Outcomes

General Education Outcomes

General Education Outcomes are concerned with the global abilities of students once they have earned a two-year college degree. To determine if students have these abilities it is necessary to ask the following questions: What abilities, talents, skills, and attitudes are expected of students when they complete a general education program and how do we know they have those traits? When students complete a major, have they learned what is needed to succeed in that field? When students complete a course, do they have the skills and abilities expected of them? What do students learn? How do we know they have learned it? The College has identified five competencies that students should attain as a result of completing the general education core courses:

- **Written Communication**—Students will demonstrate adequate writing skills by developing ideas and organizing contents effectively. (ENG 100 and 101)

- **Oral Communication**—Students will articulate ideas, concepts, and theories in a clear fashion using language and elocution skills indicative of college-level preparation. (SPH 107)
- **Mathematical Computation**—Students will compute basic mathematical operations accurately, comprehend mathematical information, and utilize analytical thinking skills to solve problems. (MTH 100 and MTH 116)
- **Computer Literacy**—Students will use current technology and develop computer skills for informational, academic, personal, and professional needs. (CIS 146)
- **Information Literacy**—Students will locate, access, and analyze information that facilitates learning and critical inquiry. (Library Orientation in ENG 101 and SPH 107)
- **Critical Thinking**—Students will process and evaluate information carefully and then apply reasoning in the use of that information to make a decision and employ an action. (BIO 103 and BIO 201)

A.A. and A.S. Degree Programs

The A.A. and A.S. degree programs are designed for transfer and, as such, constitute a general/pre-liberal arts curriculum. The General Education Outcomes serve as the five competencies identified by the College that students should attain as a result of completing the A.A. or A.S. Degree Programs:

- **Written Communication**—Students will demonstrate adequate writing skills by developing ideas and organizing contents effectively. (ENG 101)
- **Oral Communication**—Students will articulate ideas, concepts, and theories in a clear fashion using language and elocution skills indicative of college-level preparation. (SPH 107)
- **Mathematical Computation**—Students will compute basic mathematical operations accurately, comprehend mathematical information, and utilize analytical thinking skills to solve problems. (MTH 100 and MTH 116)
- **Computer Literacy**—Students will use current technology and develop computer skills for informational, academic, personal, and professional needs. (CIS 146)
- **Information Literacy**—Students will locate, access, and analyze information that facilitates learning and critical inquiry. (Library Orientation in ENG 101 and SPH 107)

A.A.S. Degree Programs

In addition to the General Education Outcomes, for each career and technical program the College has identified Program Learning Outcomes based on the principle that each graduate should exhibit, in a professional manner, the knowledge and skills of a qualified practitioner in the field. The Program Learning Outcomes for each career/technical program are listed on the individual programs [here](#).

Transfer Guides: Associate in Arts Degree and Associate in Science Degree

Students should be reminded that most all required courses can be completed at Northeast for practically all programs of study listed on the STARS website. Our listing of programs of study is simply a compilation of some of the more popular options. Following is a comprehensive list of majors from the STARS program.

<ul style="list-style-type: none"> • Advertising (UA only) • Agribusiness Economics (AA&MU only) • Agricultural Economics (AU only) • Agriscience Education (AU only) • Agronomy and Soils (AU only) • Animal/Dairy Science • Anthropology • Apparel and Textiles (UA only) • Apparel Merchandising, Design, & Production Management (AU only) • Applied Mathematics (AU only) • Architecture (AU only) • Art Education • Art History, B.A. • Art Studio, B.A. • Art Studio, B.F.A. • Athletic Training • Behavioral Science • Biology • Biology Education: Middle/High School • Biomedical Sciences (USA only) • Building Science (AU only) • Business (All Business Majors) • Business Education: Middle/High School • Career Technical Education (Athens only) • Chemistry • Chemistry Education: Middle/High School • Clinical Lab Sciences/Medical Tech • Communication Studies or Speech • Computer Science • Consumer Sciences (UA only) • Criminal Justice • Dance (UA only) • Economics, B.A. • Elementary or Early Childhood Education • Emergency Management (JSU only) • Engineering—Aerospace • Engineering—Biomedical (UAB only) • Engineering—Biosystems (AU only) • Engineering—Chemical • Engineering—Civil • Engineering—Computer Engineering • Engineering—Computer Science • Engineering—Electrical • Engineering—Industrial • Engineering—Materials • Engineering—Mechanical • English • English/Language Arts Education: Middle/High School • Environmental Science • Environmental Science (AU only) • Exercise Science and Wellness (JSU only) • Family and Consumer Sciences (JSU only) • Family and Consumer Sciences (UM only) 	<ul style="list-style-type: none"> • Fisheries Science (AU only) • Food and Nutrition (UA only) • Foreign Language • Forest Management/Forest Science (AA&MU only) • Forestry (AU only) • French Education: Middle/High School • General Science Education: Middle/High School • General Studies in Human Environmental Sciences (UA only) • Geography • Geography Education: Middle/High School • Geology • German Education: Middle/High School • Graphic Design (AU only) • Health Education: Middle/High School • Health Information Management (UAB only) • Health Science (Athens only) • Health Sciences (UAB only) • Health Services Administration (AU only) • Health, PE & Recreation (UNA only) • History • History Education: Middle/High School • Horticulture (AU only) • Hotel & Restaurant Management (AU only) • Human Development and Family Studies (AU only) • Human Development and Family Studies (UA only) • Human Environmental Sciences (UNA only) • Human Services (Troy only) • Industrial Design (AU only) • Industrial Hygiene (UNA only) • Information Systems (USA only) • Information Technology (USA only) • Interdisciplinary Arts (UWA only) • Interior Architecture (AU only) • International Studies • Interpreter Training (Troy only) • Journalism • Laboratory Technology (AU only) • Math Education: Middle/High School • Mathematics • Meteorology (USA only) • Music 	<ul style="list-style-type: none"> • Music Education: Middle/High School • Nuclear Medicine Technology (UAB only) • Nursing • Nutrition (AU only) • Philosophy • Physical Education • Physics • Physics Education: Middle/High School • Political Science • Poultry Science (AU only) • Pre-Dentistry • Pre-Law • Pre-Medicine • Pre-Occupational Therapy • Pre-Optometry • Pre-Pharmacy • Pre-Physical Therapy • Pre-Veterinary Medicine • Psychology • Public Administration (AU only) • Public Relations • Public Safety & Health Administration (Athens only) • Radiologic Sciences (USA only) • Recreation Leadership (JSU only) • Rehabilitation, non-certification (Troy only) • Religious Studies • Respiratory Therapy/Cardio Science • Restaurant and Hospitality Management (UA only) • Social Science • Social Studies Education: Middle/High School • Social Work • Sociology • Spanish Education: Middle/High School • Special Education • Speech Pathology • Sport & Fitness Management (Troy only) • Surveying and Geomatic Science (Troy only) • Technology, Industrial Technology or Engineering Technology • Telecommunication and Film or Broadcasting • Textile Management and Technology (AU only) Theatre • Wildlife Sciences (AU only)
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Allied Health Linkage

Northeast Alabama Community College is involved in a cooperative linkage program with other community colleges. The first year general education prerequisite courses are completed at Northeast. After acceptance to the health program, students may transfer to

complete coursework in their chosen field of study. The following programs are offered through this arrangement:

- Dental Assisting
- Dental Hygiene
- Diagnostic Imaging
- Diagnostic Medical Sonography
- Health Information Technology

- Clinical Laboratory Technician
- Occupational Therapy Assistant
- Physical Therapy Assistant
- Respiratory Therapy

For specific details regarding each program, students should contact Director of Advising for more information. Office: 100 Wallace Administration Building (WA), phone ext. 2245.

Below are some examples of Allied Health Programs:

Associate in Applied Science in Diagnostic Imaging

This program is designed to provide technologists for Diagnostic Imaging Departments of hospitals and clinics. Students are taught the fundamental principles underlying all phases of Radiologic Technology. Upon graduation, the student is eligible to apply to take the registry examination of the American Registry of Radiologic Technologists (65 1-687-4448). According to the American Registry of Radiologic Technologists, application for certification to practice as an R.T. may be denied if a person has been convicted of a felony, is guilty of a crime involving moral turpitude, and/or has displayed other grounds for denial by law.

Associate in Applied Science in Physical Therapist Assistant

The Physical Therapist Assistant (PTA) is a skilled technical health care worker who assists the physical therapist in providing services that help improve mobility, relieve pain, and prevent or limit permanent physical disabilities of patients suffering from injuries or disease. Patients include accident victims and individuals with disabling conditions such as low-back pain, arthritis, heart disease, fractures, head injuries, and cerebral palsy. Duties of the physical therapist assistant are varied but include rehabilitation of orthopedic, neurological, pediatric, and sports related problems. Once a patient is evaluated and a treatment plan is designed by the physical therapist, the physical therapist assistant can provide many aspects of treatment, as prescribed by the therapist. Components of treatment procedures performed by these workers involve exercise, massage, electrical stimulation, paraffin baths, hot and cold packs, traction, and ultrasound. The physical therapist assistant is responsible for reporting patient responses and treatment outcomes to the physical therapist. Physical therapists assistants are employed by hospitals, rehabilitation centers, nursing homes, home health care agencies, private practices and other specialized health care settings.

Associate in Applied Science in Respiratory Therapy

A respiratory therapist is responsible for administering, under physician's prescription, many types of breathing therapeutics, and utilizing specialized

breathing, aerosol and humidification equipment. These include the use of oxygen or oxygen mixtures, chest physiotherapy, mechanical ventilation, and aerosol medications. Respiratory therapists evaluate and treat all types of patients, ranging from premature infants whose lungs are not fully developed to elderly people whose lungs may be diseased. Respiratory therapists provide temporary relief to patients with chronic asthma or emphysema, as well as emergency care to patients who are victims of a heart attack, stroke, trauma, drowning, or shock. They perform limited physical examinations, and conduct diagnostic tests that assess breathing capacities and determine the concentration of oxygen and other gases in patients. The respiratory therapist works closely with the physician and also directly with the patient in the treatment situation by performing regular assessments of patients and equipment.

Associate in Applied Science in Surgical Technician

Surgical technologists are allied health professionals, who are an integral part of the team of medical practitioners providing surgical care to patients. Surgical technologists work under the supervision of a surgeon, ensuring that the operating room environment is safe, that equipment functions properly, and that the operative procedure is conducted under conditions that maximize patient safety. Surgical technologists possess expertise in the theory and application of sterile and aseptic technique and combine the knowledge of human anatomy, surgical procedures, and implementation tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures.

Associate in Applied Science in Funeral Service

Veterinary technicians assist veterinarians by performing duties such as teeth cleaning, electrocardiography, bandaging, wound cleaning, surgical site preparation, radiology (x-rays), some types of injections, administering oral medications, suture removal, surgery assistant, and laboratory duties to include hematology, urinalysis and blood chemistry. An Alabama veterinary technician may not perform surgery or prescribe medications. Most courses require the student to work at least 20 hours per week at an approved clinical site to complete the required clinical tasks.

Associate in Applied Science in Veterinary Technician

Veterinary technicians assist veterinarians by performing duties such as teeth cleaning, electrocardiography, bandaging, wound cleaning, surgical site preparation, radiology (x-rays), some types of injections, administering oral medications, suture removal, surgery assistant, and laboratory duties to include hematology, urinalysis and blood chemistry.

An Alabama veterinary technician may not perform surgery or prescribe medications. Most courses require the student to work at least 20 hours per week at an approved clinical site to complete the required clinical tasks.

General Requirements for the Associate in Arts (AA) Degree

The Associate in Arts Degree is designed for students planning to transfer to a senior institution to complete a program of study in a liberal arts area. The outline below provides the general guidelines from Board Policy and is used by the college to design specific degree programs. A student pursuing this degree program should be aware that certain variations may exist for Areas I, II, III, and IV depending on the student's Area V concentration. A student pursuing an AA degree must follow the specific requirements for the program as outlined in the catalog.

Area I: Written Composition	6 Credit Hours
<ul style="list-style-type: none"> Must complete ENG 101 and ENG 102. 	
Area II: Humanities and Fine Arts	12 Credit Hours
<ul style="list-style-type: none"> Must complete at least three semester hours in Literature.* Must complete at least three semester hours in the Arts. <p><i>The remaining semester hours are to be selected from Humanities and/or Fine Arts. Humanities and Arts disciplines include but are not limited to: Area/Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.</i></p>	
Area III: Natural Science and Mathematics	11 Credit Hours
<ul style="list-style-type: none"> Must complete at least three semester hours in Mathematics at the Pre-Calculus Algebra or Finite Math level or higher. <p><i>Must complete at least eight semester hours in the Natural Sciences which must include laboratory experiences. Disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.</i></p>	
Area IV: History, Social, and Behavioral Sciences	12 Credit Hours
<ul style="list-style-type: none"> Must complete at least three semester hours in History.* Must complete at least six semester hours in other disciplines in the Social and Behavioral Sciences. <p><i>Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.</i></p>	
Area I-IV: General Education Requirements	41 Credit Hours
Area V: Pre-Professional, Pre-Major, and Elective Courses	**19-23 Credit Hours
<ul style="list-style-type: none"> Courses appropriate to the degree requirements and major of the individual student and electives. <p><i>Students completing courses that have been approved for transfer by the AGSC and are appropriate to their major and/or degree program may transfer these courses with credit applicable to their degree program among two-year and four-year colleges and universities</i></p>	
Total Hours Required	**60-64 Credit Hours
<p><i>*Must complete a six-semester-hour sequence either in Literature or in History. The sequences in Area II and IV in Literature and History need to follow the sequence requirements according to the student's major and transfer plans.</i></p> <p><i>**Respective programs of study for baccalaureate degrees at Alabama public and private universities range from 120 to 128 semester credit hours in length. Colleges are only authorized to provide 50 percent of that total (60-64, depending on the total hours allocated for the bachelor's degree).</i></p>	

General Requirements for the General Education Short Term Certificate (STC)

The general education short term certificate award is designed to assist students in developing an academic foundation to earn credit toward the associate of arts or associate of science degree. The outline below provides the general guidelines from Board Policy. A student pursuing the general education short term certificate must follow the specific requirements for the program as outlined in the catalog.

Area I: Written Composition	6 Credit Hours
Area II: Humanities and Fine Arts	3-9 Credit Hours
Area III: Natural Science and Mathematics	6-8 Credit Hours
Area IV: History, Social, and Behavioral Sciences	6-9 Credit Hours
Area I-IV: General Education Requirements	21-26 Credit Hours
Area V: Electives	1-3 Credit Hours
Total Hours Required	22-29 Credit Hours

General Requirements for the Associate in Science (AS) Degree

The Associate in Science Degree is designed for students planning to transfer to a senior institution to complete a program of study in the sciences or in a specialized pre-professional field. The outline below provides the general guidelines from Board Policy and is used by the college to design specific degree programs. A student pursuing this degree program should be aware that certain variations may exist for Areas I, II, III, and IV depending on the student's Area V concentration. A student pursuing an AS degree must follow the specific requirements for the program as outlined in the catalog.

Area I: Written Composition	6 Credit Hours
<ul style="list-style-type: none"> Must complete ENG 101 and ENG 102. 	
Area II: Humanities and Fine Arts	12 Credit Hours
<ul style="list-style-type: none"> Must complete at least three semester hours in Literature.* Must complete at least three semester hours in the Arts. The remaining semester hours are to be selected from Humanities and/or Fine Arts. <p><i>Humanities and Arts disciplines include but are not limited to: Area/Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.</i></p>	
Area III: Natural Science and Mathematics	11 Credit Hours
<ul style="list-style-type: none"> Must complete at least three semester hours in Mathematics at the Pre-Calculus Algebra or Finite Math level or higher. Must complete at least eight semester hours in the Natural Sciences which must include laboratory experiences. 	

Disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.

Area IV: History, Social, and Behavioral Sciences	12 Credit Hours
<ul style="list-style-type: none"> • Must complete at least three semester hours in History.* • Must complete at least six semester hours in other disciplines in the Social and Behavioral Sciences. <p><i>Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.</i></p>	
Area I-IV: General Education Requirements	4I Credit Hours
Area V: Pre-Professional, Pre-Major, and Elective Courses	**19-23 Credit Hours
<ul style="list-style-type: none"> • Area V courses are courses appropriate to the degree requirements and major of the individual student and electives. Students completing courses that have been approved for transfer by the AGSC and are appropriate to their major and/or degree program may transfer these courses with credit applicable to their degree program among two-year and four-year colleges and universities. 	
Total Hours Required	**60-64 Credit Hours
<p><i>*Must complete a six-semester-hour sequence either in Literature or in History. The sequences in Area II and IV in Literature and History need to follow the sequence requirements according to the student's major and transfer plans.</i></p> <p><i>**Respective programs of study for baccalaureate degrees at Alabama public and private universities range from 120 to 128 semester credit hours in length. Colleges are only authorized to provide 50 percent of that total (60-64, depending on the total hours allocated for the bachelor's degree).</i></p>	

General Requirements for the Associate in Applied Science (AAS) Degree

The Associate in Applied Science Degree is an undergraduate award designed for students planning to specialize in technical, business, semi-professional, and supervisory fields that are career oriented. The outline below provides the general guidelines from Board Policy and is used by the college to design specific degree programs. A student pursuing an AAS degrees must follow the specific requirements for the program as outlined in the catalog.

Area I: Written Composition	3-6 Credit Hours
<ul style="list-style-type: none"> • A course or course combination that promotes effective written and oral communication skills. 	
Area II: Humanities and Fine Arts	3-6 Credit Hours
<ul style="list-style-type: none"> • In addition to Literature, disciplines include but are not limited to: Area/Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance. 	
Area III: Natural Science and Mathematics	6-11 Credit Hours

<ul style="list-style-type: none"> • In addition to Mathematics, disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science. • A minimum of 3 hours in Mathematics required. 	
Area IV: History, Social, and Behavioral Sciences	3-6 Credit Hours
<ul style="list-style-type: none"> • In addition to History, the Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology. 	
Area I-IV: General Education Requirements	15-29 Credit Hours
Area V: Technical Core, Technical Concentration, and Electives	31-61 Credit Hours
<ul style="list-style-type: none"> • Area V courses are courses appropriate to the degree requirements, occupational or technical specialty requirements, core courses, and electives. 	
Total Hours Required	60-76 Credit Hours

General Requirements for the Certificate (CER)

The certificate award is designed for students seeking a specialized set of skills for employment or professional advancement. The outline below provides the general guidelines from Board Policy and is used by the college to design specific certificate programs. A student pursuing any of the certificate programs must follow the specific requirements for the program as outlined in the catalog.

Area I: Written Composition	3-6 Credit Hours
<ul style="list-style-type: none"> • A minimum of one written composition course which may have a discipline specific prefix other than COM or ENG or the integration of written communication proficiencies within a required disciplinespecific course(s). 	
Area II: Humanities and Fine Arts	0-6 Credit Hours
Area III: Natural Science and Mathematics	3-7 Credit Hours
<ul style="list-style-type: none"> • A minimum of one mathematics course which may have a discipline specific prefix other than MAH or MTH or the integration of mathematics proficiencies within a required discipline-specific course(s). 	
Area IV: History, Social, and Behavioral Sciences	0 Credit Hours
Area I-IV: General Education Requirements	6-19 Credit Hours
Area V: Technical Core, Technical Concentration, and Electives	11-54 Credit Hours
Total Hours Required	30-60 Credit Hours

General Requirements for the Career Technical Education Short Term Certificate (STC)

The career technical education short term certificate award is designed to equip students with a focused set of skills for an entry level position in business or industry. The outline below provides the general guidelines from Board Policy and is used by the college to design specific career technical education short term certificate programs. A student pursuing any of the short term certificate programs must follow the specific requirements for the program as outlined in the catalog.

Area I: Written Composition	0-3 Credit Hours
Area II: Humanities and Fine Arts	0 Credit Hours
Area III: Natural Science and Mathematics	0-3 Credit Hours
Area IV: History, Social, and Behavioral Sciences	0 Credit Hours
Area I-IV: General Education Requirements	0-6* Credit Hours
Area V: Technical Core, Technical Concentration, and Electives	9-29 Credit Hours
Total Hours Required	9-29 Credit Hours
<i>*Certificates with 6 hours of general education credits, must have a minimum of 15 total credit hours.</i>	

Academic Honors: Upon Graduation

Superior academic achievement by graduating students shall be recognized by the following designations on transcripts:

Graduation with Honors (or Cum Laude)	3.50 to 3.69 GPA
Graduation with High Honors (or Magna Cum Laude)	3.70 to 3.89 GPA
Graduation with Highest Honors (or Summa Cum Laude)	3.90 to 4.00 GPA
Graduation Honors for Other Formal Awards (Diploma or Certificate) Graduation with Distinction	3.50 to 4.00 GPA

NOTE: Calculation of the grade point average (GPA) for graduation honors shall be identical to that method used to calculate the GPA to fulfill graduation requirements for the degree, diploma, or certificate being earned. In addition, in order to be eligible for a graduation honor, the student must have completed a minimum of 24 semester credit hours at the college conferring the degree or other formal award.

Skills Training Division

The Skills Training Division provides educational opportunities for all adults, regardless of prior educational attainment. Most of these programs do not require a high school diploma or GED. Activities include:

- Non-credit training programs that lead to workforce credentials
- Non-credit workshops and seminars for professional or personal development
- Incumbent worker training programs
- Workforce assessments, including ACT WorkKeys®
- Certification and examination services, including Microsoft and Certiport
- Non-credit online programs and courses that lead to workforce readiness

For information about any of the services provided by the Skills Training Division, contact Ms. Julie George at 256-228-6001 or 638-4418, extension 2214.

Short-term Non-credit Training Programs

Training programs are offered to meet current workforce needs. Since programs are dependent upon current needs, the following list of programs and requirements are subject to change and reflect requirements at the time of printing.

For more information about any non-credit short-term training programs, contact Ms. Julie George at 256-228-6001, extension 2214 or 256-638-4418, extension 2214. Upcoming class schedules and cost estimates are available on the web at www.nacc.edu/workforce. Click on "Programs".

Workshops and Seminars

A variety of workshops and seminars for both personal and professional development are offered throughout the year. For a schedule of upcoming classes, visit www.nacc.edu/workforce. Click on "Workshops & Seminars".

Industry Training (Incumbent Worker Training)

Northeast Alabama Community College offers training services to area business and industry. Training can be offered on site or on campus in a variety of areas. Additionally, an Alabama Technology Network (ATN) Center is located on campus, providing a vast array of training and consulting services to business and industry. For more information about the Alabama Technology Network, contact Mr. Ronny Kisor, ATN Director, at 256-228-6001 or 256-638-4418, extension 2265. For more information about training for business and industry, contact Julie George at 256-638-4418, ext. 2214.

ACT WorkKeys® Assessment Career Readiness Certificate

WorkKeys® assessments give students and workers reliable, relevant information about their workplace skill levels. Combined with information about skill levels required for jobs, assessments information can help users make better career and educational decisions. For more information about the WorkKeys® Assessment and Development Center, contact Mrs. Nancy Griggs at 256-228-6001 or 256-638-4418, extension 2217.

Certification Services

Northeast Alabama Community College offers a certification center where interested persons may take certification examinations for a variety of areas, including Microsoft Office Specialist, Internet and Computing Core Certification (IC3), and Electronics Technicians Association, International (ETA-I). For more information or to schedule an exam, contact Ms. Julie George at 256-228-6001 or 638-4418, extension 2214 or visit www.nacc.edu.

Diversified Health Occupations

This program is designed to give graduates multiple pathways to employment in the health care field. Upon completion of the program, graduates will be eligible to take certification exams for EKG technician, phlebotomy technician, and pharmacy technician. This program does not offer college credit and will not lead to a college degree.

Courses Required:		
Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	8
SDA 050	Healthcare Fundamentals	80
SDC 013	Pharmacy Technician	50
SDC 036	Phlebotomy Technician	112
SCD 025	EKG Technician	50

EKG/Cardiovascular Technician

This program is designed to give graduates opportunity for entry level employment as an EKG technician. This program does not offer college credit and will not lead to a college degree. Certification as an EKG technician is available to those who qualify.

Courses Required:		
Course Number	Course Title	Clock Hours
SCD 025	EKG Technician	50

Home Health/Hospice Aide

This program is designed to give graduates opportunity for entry-level employment as a nursing assistant/home health aide. This program does not offer college credit and will not lead to a college degree. Certification as a

nursing assistant is available to those who qualify. Additional training in home health care will be provided as part of this program.

Required:		
Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	8
SDA 051	Nursing Assistant	90
SDC 065	Home Health Aide	50

Nursing Assistant

This program is designed to give graduates opportunity for entry level employment as a nursing assistant/home health aide. This program does not offer college credit and will not lead to a college degree. Certification as a nursing assistant is available to those who qualify.

Required:		
Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	8
SDA 051	Nursing Assistant	90

Patient Care Technician

This program is designed to give graduates multiple pathways to employment in the health care field. Upon completion of the program, graduates will be eligible to take certification exams for nursing assistant, EKG technician, and phlebotomy technician. This program does not offer college credit and will not lead to a college degree.

Courses Required:		
Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	8
SDA 050	Healthcare Fundamentals	80
SDA 051	Nursing Assistant	90
SDC 036	Phlebotomy Technician	112
SCD 025	EKG Technician	50

Pharmacy Technician

This program is designed to give graduates pathways to employment as a pharmacy technician. Successful completers of this program will be eligible to take the national certification exam for pharmacy technicians. This program does not offer college credit and will not lead to a college degree.

Courses Required:		
Course Number	Course Title	Clock Hours
SDA 013	Pharmacy Technician	50

Phlebotomy Technician

This program is designed to give graduates pathways to employment as a phlebotomy technician. Successful

completers of this program will be eligible to take the national certification exam for phlebotomy technicians. This program does not offer college credit and will not lead to a college degree.

Courses Required:		
Course Number	Course Title	Clock Hours
SDA 036	Phlebotomy Technician	112

Advisory Boards & Committees

Advisory Boards/Committees

It is the policy of Northeast Alabama Community College that, with regard to appointments to advisory boards at NACC, no person shall be discriminated against on the basis of any impermissible criterion or characteristic, including, without limitation, race, color, national origin, religion, marital status, disability, sex, age, or any other protected class as defined by federal and state law (reference ACCS Policies 601.02 and 800.00).

NORTHEAST ADVISORY BOARD	NACC FOUNDATION MEMBERS
<p>Lowell Barron - Fyffe Abby Benson - Scottsboro Leah Boykin - Scottsboro Russell Greathouse - Fort Payne Roy Sanderson - Rainsville David Dodd - Fort Payne Attorney-at-Law Rudder Williams, Chair - Scottsboro Jenifer Holt - Jackson County Circuit Court Judge Mike O'Dell - DeKalb County District Attorney Randall Cole - DeKalb County Circuit Court Judge Charles Willmon - Section Steve Livingston (Senator) - Scottsboro Donna Campbell - Scottsboro Brad Shurett - Scottsboro Fred Johnson - Rainsville Cassie Parker - Mentone</p>	<p>Mr. Jim Blevins - Stevenson Mrs. Lynn Brewer - Fort Payne Mrs. Cassie Hooks Parker - Mentone Mr. Rex Cresswell - Henagar Mr. Win Harbin - Scottsboro Mr. Dennis Hicks - Rainsville Mr. Reggy Jones - Fyffe Mr. Mike Kirkland - Huntsville Ms. Felicia Mitchell - Rainsville Ms. Glenda Moody - Scottsboro Ms. JoAnn Storey - Henagar Mr. James Tidmore - Section Mr. Danny Ashley - Fyffe Mr. Dus Rogers - Scottsboro Mr. Heath Blevins - Rainsville Mr. Mike Reed - Rainsville Dr. Anthony Sims - Sylvania Mrs. Amber Harrington - Scottsboro Mrs. Melanie Bradford Holliman - Scottsboro</p>
CHARLES M. PENDLEY FOUNDERS CHAIR COMMITTEE	NORTHEAST ADVISORY COMMITTEES STRATEGIC ANALYSIS TEAM FOR CAREER/TECHNICAL EDUCATION
<p>Lallie Leighton, Chair Joyce Kenamer Pat Freeman David Beddingfield Barbara Cole</p>	<p>Dr. David - Campbell President Kerry Wright - Dean of Workforce Development and Skills Training Rodney Bone - Dean of Administrative Services Hayley Johnson - BUS, CIS, OAD Division Director Dr. Myrna Williamson - NUR Division Director Russell Greathouse - NACC Advisory Board Randy McClung - DDT Advisory Committee</p>

<p>Jessie Gamez - Fort Payne City Schools Marilyn Dalton - MAT Program Director Jason Davidson - Jackson County Schools Pam Clay - DeKalb County EDA Nathan Lee - Jackson County EDA</p>	<p>PROGRAM ADVISORY COMMITTEES BUSINESS</p>
<p>Dr. David Campbell (ex officio) - President Chad Gorham - Interim Dean of Instruction Kerry Wright - Dean of Workforce Development and Skills Training Haley Johnson (convener) - Division Director Randy Dunn - Berry & Dunn Office Equipment Jimmy Durham - DeKalb County Economic Development Authority Sheila Shepard - Jackson County Economic Development Authority Howard Moore - Maples Industries Blake Wright - Wright Insurance Agency Paul Higdon - Farmers Telephone Cooperative</p>	<p>CHILD DEVELOPMENT</p> <p>Dr. David Campbell, (ex-officio) - President Chad Gorham - Interim Dean of Instruction Kerry Wright - Dean of Workforce Development and Skills Training Joan Reeves - Director, Div. English and Fine Arts/Director of Student Activities Dana Garner - Instructor/Advisor of Child Development Judy Davidson, (Committee Chair) - DeKalb County Childcare Resource Network Kimberly Reese - Childcare Resource Network Education Coordinator Erynn Lusk - State Dept. of Early Childhood Education Jenny Copeland - Education Administrator, State of Ala. Dept. Early Childhood Education Cathy Mitchell - Scottsboro Impact Learning Center Deborah Fanning - Scottsboro High School FCS Instructor Myra Holt - Regional Manager for Office of School Readiness Pre-K Bob Johnston - DeKalb County Chief Deputy District Attorney Greta Mosley - Fort Payne Head Start Theresa Dalton - Area Team Leader, Head Start/Early Head Start/Pre-K Penny Roney - Jackson County Health Department Jim Cunningham - Superintendent, Fort Payne City Schools Kevin Dukes - Superintendent, Jackson County Schools Dr. Jason Barnett - Superintendent, DeKalb County Schools Dr. Jose Reyes - Superintendent, Scottsboro City Schools Dr. Houston Henderson - Assistant Principal, Wills Valley, Fort Payne Mark Guffey - Asst. Superintendent/ Federal Programs Director, Jackson County Schools Dr. Julia Everett - Director, NACC Cecil B. Word Learning Resources Center/ Library</p>
COMPUTER INFORMATION SYSTEMS	CRIMINAL JUSTICE
<p>Dr. David Campbell (ex officio) - President Chad Gorham - Interim Dean of Instruction Kerry Wright - Dean of Workforce Development and Skills Training Haley Johnson (convener) - Division Director Joe Ford - DeKalb Regional Medical Center Laura Hulgan - First State Bank Julie Hester - Mor-Gas, Inc. Patricia McCrary - Scottsboro City Schools Phillip Shirey - Farmers</p>	<p>Dr. David Campbell (ex officio) - President Chad Gorham - Interim Dean of Instruction Kerry Wright - Dean of Workforce Development and Skills Training Charles Centers - Rainsville Police Department Ralph Dawe - Scottsboro Police Department Michael O'Dell - District Attorney, 9th Judicial Circuit Michael Edmonson - DeKalb County Sheriff's Office Hon. John H. Graham - Jackson County Circuit Judge</p>

<p>Telephone Cooperative Bradley Willmon - WestRock Container Corporation</p>	<p>Rocky Harnen - Jackson County Sheriff's Office Nick Welden - DeKalb County Sheriff's Office Chuck Phillips - Jackson County Sheriff's Office Hon. Jeremy S. Taylor - 9th Judicial Circuit Judge Steven Whited - Criminal Justice Instructor</p>	<p>Eric Chambers - GH Metal Solutions Bruce Roberts - Rock-Tenn Kyle Biles - Plasman Carri Smith - Valmont David Hulsey - Siemens Paul Ingham - Johns Manville (Health & Safety) Charles Renegar - Johns Manville (Engineer)</p>	
<p>DRAFTING & DESIGN TECHNOLOGY</p>	<p>EMERGENCY MEDICAL SERVICES</p>	<p>INDUSTRIAL SYSTEMS TECHNOLOGY</p>	<p>MACHINE TOOL TECHNOLOGY</p>
<p>Dr. David Campbell (ex officio)- President Kerry Wright - Dean of Workforce Development and Skills Training Kelly Black (convener) - DDT Instructor Pam Clay - Dekalb Economic Development Hunter Furgerson - GH Metal Solutions Chelsie Khan - TVA CadNet Paden Sharpe - DC Equipment Leah Cornett - Vulcraft Devin Davis - Vulcraft Kellie Bailey - Southern Metal Fab Kelly Tarvin - Southern Metal Fab Jeff Mitchell - Carr & Associates Engineers Alex Flora - Bailey Bridges Josh Caldwell - Crown Machinery Dakota Roberts - Taylor Manufacturing McClain Butler - Taylor Manufacturing Stone Yates - Taylor Manufacturing Jonathan Walker - Environmental Solutions Kelly Sanders - Valley Joist Greg Smyth - Roof Curb Systems Clifton Reaser - Roof Curb Systems Brian Keith - RoadTec Jim Hicks - Steel Plus Jeremy Rowell - Steel Plus Brad Jacoway - Steel Plus Brandon McBride - Gametime / PlayCore Janet McConnell - Gametime / PlayCore Kevin Nixon - Gametime / PlayCore</p>	<p>Dr. Campbell - President Kerry Wright - Dean of Workforce Development and Skills Training Colton Lockard - Student Benjamin Cook - Graduate Kristi Gant - EMS Program Director Chris Hawes - Highlands EMS Amy St. Clair - DeKalb Regional Medical Center Dr. Ashley Cole - Physician Cheryl Turner - DeKalb Ambulance Service Deborah Jagggers - Air Evac Gene Necklaus - Scottsboro Fire Department Greg Lockard - Scottsboro Fire Department Scott Westbrook - Fort Payne Fire Department Willimac Wright - Rainsville Fire Department Shane Parker - Marshall Medical Centers EMS Ronnie Osbourn - DeKalb County Probate Judge Victor Manning - Jackson County Probate Judge John David Jordan - Jackson County Coroner Jamie Grey - State of Alabama Office of EMS Anthony Clifton - DeKalb County EMA Nathan Lee - Jackson County EDA Pam Clay - DeKalb County EDA</p>	<p>Dr. David Campbell (ex officio) - President Kerry Wright - Dean of Workforce Development and Skills Training Dennis Lester (convener) - IST Instructor Danny Johnston - Lozier Corp. Howard Norton - PlayCore Jake Biddle - Wayne Farms Rick Morgan - Shaw Industries Group Inc. Jerry Dunn - ATI Firth Sterling John Anderson - United States Gypsum Rocky Franklin - Great Western, LLC Randy Dorsett - Alatrade Foods Brad Scott - GH Metal Solutions Cecile Gray- BlueScope Steel Gary Anderson - Polyamide HP Jeff Comer - WestRock</p>	<p>Dr. David Campbell (ex officio) - President Kerry Wright - Dean of Workforce Development and Skills Training Hugo DeAngelis (convener) - MTT Instructor Steve Avans - Avans Machine and Tool Kevin Wagner - Dixie Machine Shop Heath Osbourne - GH Metal Solutions Teresa Wilson - Lozier Jonathon Andrews - R & M Machine Shop Robert Dean - Retired Instructor James Johnson - Siemens Mike Murphy - Lozier Ronny Kisor - Alabama Technology Network Randy McClung - JSA Machinery Greg Brown - Brown Precision, Inc. Tim Berry - Newman Technologies Blake Gifford - Dynetics</p>
<p>ENGINEERING TECHNICIAN</p>	<p>INDUSTRIAL ELECTRONICS TECHNOLOGY</p>	<p>MEDICAL ASSISTING TECHNOLOGY</p>	<p>NURSING</p>
<p>Dr. David Campbell (ex officio) - President Kerry Wright - Dean of Workforce Development and Skills Training Dave Hyatt - Instructor Ronny Kisor - Alabama Technology Network David Holder - Sanoh- America Roger Dukes - GH Metal Solutions Tim Gray - Polyamide Mark Cather - Lozier Shane Snyder - Sanoh- America Edwin Stanley - GH Metal Solutions</p>	<p>Dr. David Campbell (ex officio)President Kerry Wright- Dean of Workforce Development and Skills Training Galen Andrews - ILT Instructor David Garrett - Farmers Telephone Cooperative Sammy Hicks - PlayCore Jay Lindsey - U.S. Army Research and Development Steve Howell - Diolen</p>	<p>Dr. David Campbell (ex officio) - President Kerry Wright - Dean of Workforce Development and Skills Training Marilyn Dalton (convener) - MAT Program Director Kellie Keeble, CCMA - Dekalb Urgent Care Sharon Hughes - MM DX & Walk In Veronica Wetzell - Loving Arms Home Care Agency Vernessa Steele - DeKalb MD Vicky Adkins - Scottsboro/ DeKalb ENT Monica Hancock - HMC – Education Terri Gilley - HMC – LAB Susanna Sivley - HMC – Director HR Deborah Hilley - EPCOT Gerald Bell - Turning Point Legal-Guntersville Tina Terrell - DeKalb Regional – Lab Tasha Hendrix, CCMA - Dr. Bolton, Scottsboro Tina Robinson - DeKalb Regional Haylee Veal - Current MAT Student Joyce Farr, CCMA - MAT Graduate Chastity Phillips, CCMA - Dove Family Health- Rainsville Rebecca Reeves - DeKalb Tech DE Instructor Shainah Hawes - EPCOT DE</p>	<p>Dr. David Campbell (ex officio) - NACC President Angie Bennett, CNO - (DeKalb Regional Medical Center) Lisa Bearden, RN - Education Director (Marshall Medical Center, North) Tami Howard - Education Director (Marshall Medical Center, South) Jessica O'Neal - Nurse Manager (Highlands Medical Center) Carol Hawkins, RN - Director of Nursing (Crown Healthcare) Amber Goodman - Director of Nursing (Crossville Health and Rehab) Sheree Wilson - Nursing (Cloverdale Rehabilitation & Nursing Center) Jodi Lamey - Assistant Director of Nursing (Collinsville Healthcare and Rehab) Manda Mountain - Chief Nursing Office (Highland's Health and Rehabilitation) Pam Vernon - Head Nurse Jackson County Schools (Jackson County Board of Education) Mary Crosby - DeKalb County Board of Education Hilary Looney - Director of Nursing (Rehab Select at Albertville) Jean Ann McMurry - Chief Nursing Office (Highlands Medical Center) Kathy Woodruff - Chief Nursing Office (Marshall Medical Centers)</p>

Instructor Paula Carroll - DeKalb Tech DE Instructor Stephanie Hill - Scottsboro HS DE Instructor Robert Carter - MAT Lab Instructor Rachel Walker - MAT Instructor Donna Moore - MAT Instructor Nancy Griggs - Scottsboro Chamber of Commerce Dr. Ashley Cole - Medical Director, DeKalb Urgent Care Tracy Chapman - Dr. Simmons-Mountain Lake Urology Kathy Gilbert - ADPH	
OFFICE ADMINISTRATION	SALON AND SPA MANAGEMENT
Dr. David Campbell (ex officio) - President Chad Gorham - Dean of Instruction Kerry Wright - Dean of Workforce Development and Skills Training Haley Johnson (convener) - Division Director Chris Croft - Attorney Jeff Helton - Scottsboro Area Career Center Emily LeRoy - Fort Payne Area Career Center Shannon Maxwell - First Choice Personnel Susanna Sivley - Highlands Medical Center Vonda Tharpe - The Children's Place Sherry Whitten - OAD Adjunct Instructor Judge Jeremy Taylor - PRL Adjunct Instructor	Dr. David Campbell (ex officio) - President Kerry Wright - Dean of Workforce Development and Skills Training Regina Gilliland (convener) - Instructor of Salon & Spa Management Program Coordinator Kristin Abercrombie Lacey - Instructor Salon and Spa Management Hannah Highfield - Cosmetologist Melissa Stephens - Owner, Cosmetique Style Salon Michelle Decker - Owner, Gigi's Hair & Nails Salon Gail Goolesby - Cosmetologist, Gigi's Hair & Nails Salon Linda Lybrand - Cosmetologist, Gigi's Hair & Nails Salon Michelle White - Nails, Gigi's Hair & Nails Salon Dana Thomas - Owner, The Designers Babs Holcomb - Nails, The Designers Maribel Bravo - Scottsboro High School Aide, The Designers Keven Roney - Owner, K Roney Hair Salon Lauren Keck - Cosmetologist, Salon Allure Paula Lecher - Owner, Salon Allure, Redken Artist Tracy Martin - DeKalb Co Tech Center Cosmetology Instructor Teri Mathews - Scottsboro High School Cosmetology Aide DesLyne Waits - Merle Norman Heather Griggs - Massage Therapy Instructor, Bigelows Cathy Stiefel - Cathy's 5th and Grand Heath Mankey - State Beauty Supply Dana Mitchell - PPD Brands Dana Thomas - Owner, Hair Designers Lauren Keck - Studio Gavin Haircolour Salon Paula Lecher - Owner, Salon Allure Michelle Decker - Gigi's Hair and Nail Salon Connie Stewart - Owner, EDM Salon Tracie Martin Sharp - Cosmetology Instructor, DeKalb Co. Tech Center Sydney Lea - Cosmetology Instructor, EPCOT Laura Thompson - Cosmetology Instructor, Marshall County Tech Jason Davidson - Director, EPCOT Jonathan Phillips - Director, DeKalb Co. Tech Center Sherman Leigh - Director, Marshall County Tech Nancy Griggs - Director of Talent
WELDING	
Dr. David Campbell (ex officio) - President Kerry Wright - Dean of Workforce Development and Skills Training John Fowler (convener) - WDT Instructor Sean-Paul Kimball - Iron Workers Union Local 704 Chris Bell - UA Local 91 Mike Brooks - Bluescope Buildings Dalton Owensby - Arcosa-Myer Utility Structures Kerry Lavorne - Telko Inc. Terry Baine - Valley Joist David Rigsby - Liberty Steel Jeremy Conover - Playcore Jake Pinholster - GH Metal Solutions	

	Development, Mountain Lakes Chamber of Commerce Lindsey Foster - Owner, Advanced Physical Therapy
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DEGREE REQUIREMENTS



Degrees & Certificates

Advanced Design and Manufacturing

Associate in Applied Science, Advanced Design and Manufacturing - CAD/CAM Option

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Advanced Design & Manufacturing Program will be able to:

- Demonstrate proper use of precision measurement tools to accurately inspect and document the features of a part. (ADM 101) (ADM 155) (ADM 261)
- Read and interpret industry-standard technical drawings & annotations of mechanical parts and assemblies. (ADM 110) (ADM 215)
- Use 2D CAD software to produce industry-standard technical drawings of mechanical parts. (ADM 107) (DDT 220)
- Use 3D CAD software to produce parametric solid models and industry-standard technical drawings of mechanical parts and assemblies. (MDT 147) (MDT 202) (ADM 155)
- Use additive manufacturing technology to create scaled prototypes of mechanical parts. (ADM 160) (ADM 155) (ADM 261)
- Demonstrate good soft skills and a high level of workplace readiness. (ADM 155)

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Speech Elective Group (ADM)	3
	Fine Arts Elective Group (AAS)	3
	Computer Science Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	History, Social, & Behavioral Sciences Elective Group (AAS)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 108	INTRO TO 3D MODELING	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
	Intermediate Solid Modeling Group (ADM)	3
ADM 155	MANUFACTURING PROJECTS3	3
WKO 131	MSSC SAFETY COURSE	3
WKO 106	WORKPLACE SKILLS	3
	Technical Cooperative Education	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

Area V Emphasis Courses

Item #	Title	Credits
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
MTT 140	BASIC COMPUTER NUMERICAL CONTROL TURNING PROGRAMMING I	3
MTT 141	BASIC COMPUTER NUMERICAL CONTROL MILLING PROGRAMMING I	3
MTT 212	ADVANCED COMPUTER NUMERICAL CONTROL TURNING	3
MTT 213	ADVANCED COMPUTER NUMERICAL CONTROL MILLING	3
Total Credits		69

Associate in Applied Science, Advanced Design and Manufacturing - Drafting Design Option

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Advanced Design & Manufacturing Program will be able to:

- Demonstrate proper use of precision measurement tools to accurately inspect and document the features of a part. (ADM 101) (ADM 155) (ADM 261)
- Read and interpret industry-standard technical drawings & annotations of mechanical parts and assemblies. (ADM 110) (ADM 215)

- Use 2D CAD software to produce industry-standard technical drawings of mechanical parts. (ADM 107) (DDT 220)
- Use 3D CAD software to produce parametric solid models and industry-standard technical drawings of mechanical parts and assemblies. (MDT 147) (MDT 202) (ADM 155)
- Use additive manufacturing technology to create scaled prototypes of mechanical parts. (ADM 160) (ADM 155) (ADM 261)
- Demonstrate good soft skills and a high level of workplace readiness. (ADM 155)

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Speech Elective Group (ADM)	3
	Fine Arts Elective Group (AAS)	3
	Computer Science Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	History, Social, & Behavioral Sciences Elective Group (AAS)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 108	INTRO TO 3D MODELING	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
	Intermediate Solid Modeling Group (ADM)	3
ADM 155	MANUFACTURING PROJECTS	3
WKO 131	MSSC SAFETY COURSE	3
WKO 106	WORKPLACE SKILLS	3
	Technical Cooperative Education	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

Area V Emphasis Courses

Item #	Title	Credits
DDT 124	BASIC TECHNICAL DRAWING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
	Advanced Solid Modeling Group (ADM)	3
DDT 220	ADVANCED TECHNICAL DRAWING	3
	Capstone Group (ADM)	3

Total Credits

69

Associate in Applied Science, Advanced Design and Manufacturing - Manufacturing Design Option

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Advanced Design & Manufacturing Program will be able to:

- Demonstrate proper use of precision measurement tools to accurately inspect and document the features of a part. (ADM 101) (ADM 155) (ADM 261)
- Read and interpret industry-standard technical drawings & annotations of mechanical parts and assemblies. (ADM 110) (ADM 215)
- Use 2D CAD software to produce industry-standard technical drawings of mechanical parts. (ADM 107) (DDT 220)
- Use 3D CAD software to produce parametric solid models and industry-standard technical drawings of mechanical parts and assemblies. (MDT 147) (MDT 202) (ADM 155)
- Use additive manufacturing technology to create scaled prototypes of mechanical parts. (ADM 160) (ADM 155) (ADM 261)
- Demonstrate good soft skills and a high level of workplace readiness. (ADM 155)

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Speech Elective Group (ADM)	3
	Fine Arts Elective Group (AAS)	3
	Computer Science Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	History, Social, & Behavioral Sciences Elective Group (AAS)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 108	INTRO TO 3D MODELING	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
	Intermediate Solid Modeling Group (ADM)	3
ADM 155	MANUFACTURING PROJECTS	3
WKO 131	MSSC SAFETY COURSE	3
WKO 106	WORKPLACE SKILLS	3
	Technical Cooperative Education	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

Area V Emphasis Courses

Item #	Title	Credits
ENT 106	PRINCIPLES OF ENGINEERING TECHNOLOGY	3
ENT 223	MATERIALS SELECTION	3
ENT 221	INDUSTRIAL QUALITY AND PRODUCTIVITY	3
	Advanced Solid Modeling Group (ADM)	3
	Reverse Engineering or Application of Design Elective Group (ADM)	3
	Total Credits	69

Associate in Applied Science, Advanced Design and Manufacturing - Manufacturing Systems Option

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Advanced Design & Manufacturing Program will be able to:

- Demonstrate proper use of precision measurement tools to accurately inspect and document the features of a part. (ADM 101) (ADM 155) (ADM 261)
- Read and interpret industry-standard technical drawings & annotations of mechanical parts and assemblies. (ADM 110) (ADM 215)
- Use 2D CAD software to produce industry-standard technical drawings of mechanical parts. (ADM 107) (DDT 220)

- Use 3D CAD software to produce parametric solid models and industry-standard technical drawings of mechanical parts and assemblies. (MDT 147) (MDT 202) (ADM 155)
- Use additive manufacturing technology to create scaled prototypes of mechanical parts. (ADM 160) (ADM 155) (ADM 261)
- Demonstrate good soft skills and a high level of workplace readiness. (ADM 155)

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Speech Elective Group (ADM)	3
	Fine Arts Elective Group (AAS)	3
	Computer Science Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	History, Social, & Behavioral Sciences Elective Group (AAS)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 108	INTRO TO 3D MODELING	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
	Intermediate Solid Modeling Group (ADM)	3
ADM 155	MANUFACTURING PROJECTS	3
WKO 131	MSSC SAFETY COURSE	3
WKO 106	WORKPLACE SKILLS	3
	Technical Cooperative Education	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

Area V Emphasis Courses

Item #	Title	Credits
ADM 295	MSSC GREEN PRODUCTION	3
	Process Technology Systems or 3 Intro to Flexible Manufacturing Cells Elective Group (ADM)	
ENT 221	INDUSTRIAL QUALITY AND PRODUCTIVITY	3
ADM 277	INDUSTRIAL ENERGY SOURCES SUSTAINABILITY	3
ADM 281	ADVANCED MANUFACTURING PROCESSES/NEW AND EMERGING ENERGY TECHNOLOGIES	3
Total Credits		69

Associate in Applied Science, Advanced Design and Manufacturing - Production Technician Option

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Advanced Design & Manufacturing Program will be able to:

- Demonstrate proper use of precision measurement tools to accurately inspect and document the features of a part. (ADM 101) (ADM 155) (ADM 261)
- Read and interpret industry-standard technical drawings & annotations of mechanical parts and assemblies. (ADM 110) (ADM 215)
- Use 2D CAD software to produce industry-standard technical drawings of mechanical parts. (ADM 107) (DDT 220)
- Use 3D CAD software to produce parametric solid models and industry-standard technical drawings of mechanical parts and assemblies. (MDT 147) (MDT 202) (ADM 155)
- Use additive manufacturing technology to create scaled prototypes of mechanical parts. (ADM 160) (ADM 155) (ADM 261)
- Demonstrate good soft skills and a high level of workplace readiness. (ADM 155)

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Speech Elective Group (ADM)	3
	Fine Arts Elective Group (AAS)	3
	Computer Science Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	History, Social, & Behavioral Sciences Elective Group (AAS)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 108	INTRO TO 3D MODELING	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
	Intermediate Solid Modeling Group (ADM)	3
ADM 155	MANUFACTURING PROJECTS	3
WKO 131	MSSC SAFETY COURSE	3
WKO 106	WORKPLACE SKILLS	3
	Technical Cooperative Education	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

Area V Emphasis Courses

Item #	Title	Credits
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3
	Advisor Approved Elective - Production Group (ADM)	6
Total Credits		69

Associate in Applied Science, Advanced Design and Manufacturing - Quality Control & Inspection Option

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Advanced Design & Manufacturing Program will be able to:

- Demonstrate proper use of precision measurement tools to accurately inspect and document the features of a part. (ADM 101) (ADM 155) (ADM 261)
- Read and interpret industry-standard technical drawings & annotations of mechanical parts and assemblies. (ADM 110) (ADM 215)
- Use 2D CAD software to produce industry-standard technical drawings of mechanical parts. (ADM 107) (DDT 220)
- Use 3D CAD software to produce parametric solid models and industry-standard technical drawings of mechanical parts and assemblies. (MDT 147) (MDT 202) (ADM 155)
- Use additive manufacturing technology to create scaled prototypes of mechanical parts. (ADM 160) (ADM 155) (ADM 261)
- Demonstrate good soft skills and a high level of workplace readiness. (ADM 155)

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Speech Elective Group (ADM)	3
	Fine Arts Elective Group (AAS)	3
	Computer Science Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	History, Social, & Behavioral Sciences Elective Group (AAS)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 108	INTRO TO 3D MODELING	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
	Intermediate Solid Modeling Group (ADM)	3
ADM 155	MANUFACTURING PROJECTS	3
WKO 131	MSSC SAFETY COURSE	3
WKO 106	WORKPLACE SKILLS	3
	Technical Cooperative Education	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

Area V Emphasis Courses

Item #	Title	Credits
ADM 106	QUALITY CONTROL CONCEPTS	3
ENT 221	INDUSTRIAL QUALITY AND PRODUCTIVITY	3
ENT 223	MATERIALS SELECTION	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
	Capstone Group (ADM)	3
Total Credits		69

Certificate, Advanced Design and Manufacturing - CAD/CAM Option

Degree Type
Certificate

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	Computer Science Elective Group (ADM)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
WKO 131	MSSC SAFETY COURSE	3
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 108	INTRO TO 3D MODELING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
MTT 140	BASIC COMPUTER NUMERICAL CONTROL TURNING PROGRAMMING I	3
MTT 141	BASIC COMPUTER NUMERICAL CONTROL MILLING PROGRAMMING I	3
Total Credits		33

Certificate, Advanced Design and Manufacturing - CADD Option

Degree Type
Certificate

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	Computer Science Elective Group (ADM)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
WKO 131	MSSC SAFETY COURSE	3
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 107	CAD CONCEPTS	3
ADM 108	INTRO TO 3D MODELING	3
DDT 124	BASIC TECHNICAL DRAWING	3
	Intermediate Solid Modeling Group (ADM)	3
Total Credits		33

Certificate, Advanced Design and Manufacturing -Manufacturing Systems Option

Degree Type
Certificate

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	Computer Science Elective Group (ADM)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
WKO 131	MSSC SAFETY COURSE	3
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 295	MSSC GREEN PRODUCTION	3
	Process Technology Systems or 3 Intro to Flexible Manufacturing Cells Elective Group (ADM)	3
ENT 221	INDUSTRIAL QUALITY AND PRODUCTIVITY	3
ADM 277	INDUSTRIAL ENERGY SOURCES SUSTAINABILITY	3
Total Credits		33

Certificate, Advanced Design and Manufacturing -Production Technician Option

Degree Type
Certificate

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	Computer Science Elective Group (ADM)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
WKO 131	MSSC SAFETY COURSE	3
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
	Design Innovation & Engineering Foundations Group (ADM)	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3
Total Credits		33

Certificate, Advanced Design and Manufacturing - Quality Control & Inspection Option

Degree Type

Certificate

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	Computer Science Elective Group (ADM)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
WKO 131	MSSC SAFETY COURSE	3
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 106	QUALITY CONTROL CONCEPTS	3
ENT 221	INDUSTRIAL QUALITY AND PRODUCTIVITY	3
ENT 223	MATERIALS SELECTION	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3
Total Credits		33

Certificate, Advanced Design and Manufacturing - Technical Drawing Option

Degree Type

Certificate

Success Guide

Area I - IV Academic Courses

Item #	Title	Credits
	English Elective Group (ADM)	3
	Mathematics Elective Group (ADM)	3
	Computer Science Elective Group (ADM)	3

Area V Core ADM Technical Courses

Item #	Title	Credits
WKO 131	MSSC SAFETY COURSE	3
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ADM 107	CAD CONCEPTS	3
DDT 124	BASIC TECHNICAL DRAWING	3
DDT 220	ADVANCED TECHNICAL DRAWING	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3
Total Credits		33

Short-Term Certificate, Advanced Design and Manufacturing - 3D Modeling Option

Degree Type

Certificate

Success Guide

Area V Core ADM Technical Courses

Item #	Title	Credits
ADM 110	BLUEPRINT READING	3
ADM 114	DESIGN INNOVATION	3
ADM 108	INTRO TO 3D MODELING	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
	Intermediate Solid Modeling Group (ADM)	3
Total Credits		15

Short-Term Certificate, Advanced
Design and Manufacturing - Additive
Manufacturing Option

Degree Type
Certificate

Success Guide

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 114	DESIGN INNOVATION	3
ADM 108	INTRO TO 3D MODELING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
ADM 155	MANUFACTURING PROJECTS3	3
Total Credits		18

Short-Term Certificate, Advanced
Design and Manufacturing - CAD/CAM
Option

Degree Type
Certificate

Success Guide

Area V Core ADM Technical Courses

Item #	Title	Credits
ADM 107	CAD CONCEPTS	3
ADM 108	INTRO TO 3D MODELING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
ADM 155	MANUFACTURING PROJECTS3	3
Total Credits		12

Short-Term Certificate, Advanced
Design and Manufacturing - CADD
Option

Degree Type
Certificate

Success Guide

Area V Core ADM Technical Courses

Item #	Title	Credits
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
ADM 108	INTRO TO 3D MODELING	3
DDT 124	BASIC TECHNICAL DRAWING	3
Total Credits		12

Short-Term Certificate, Advanced
Design and Manufacturing -
Manufacturing Design Option

Degree Type
Certificate

Success Guide

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
	Design Innovation & Engineering Foundations Group (ADM)	3
ENT 223	MATERIALS SELECTION	3
ADM 155	MANUFACTURING PROJECTS3	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3
Total Credits		15

Short-Term Certificate, Advanced
Design and Manufacturing - Technical
Drawing Option

Degree Type
Certificate

Success Guide

Area V Core ADM Technical Courses

Item #	Title	Credits
	Precision Measurement Group (ADM)	3
ADM 110	BLUEPRINT READING	3
ADM 107	CAD CONCEPTS	3
ADM 108	INTRO TO 3D MODELING	3
DDT 124	BASIC TECHNICAL DRAWING	3
	Intermediate Solid Modeling Group (ADM)	3
Total Credits		18

Air Conditioning and Refrigeration Technology

Associate in Applied Science, Air Conditioning and Refrigeration

Degree Type
A.A.S.

Student Learning Outcomes:

Graduates of the Heating, Ventilation, Air Conditioning, and Refrigeration Program will be able to:

- Function as a competent entry-level HVAC-R technician by demonstrating knowledge and skills retained from coursework (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities and Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose one:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

****Student is responsible for meeting with an advisor to select courses.**

Area IV - History, Social, & Behavioral Sciences (3 Credits)

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (51 Credits)

Item #	Title	Credits
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR	3
ACR 122	HVACR ELECTRIC CIRCUITS	3
ACR 123	HVAC/R ELECTRICAL COMPONENTS	3
WKO 106	WORKPLACE SKILLS	3
	Workplace Skills Enhancement	3
	Technical Cooperative Education	3
	ACR Courses by Advisement	24
	Total Credits	72

Suggested Career Pathway in Air Conditioning and Refrigeration

Degree Type

Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
ENG 101	ENGLISH COMPOSITION	3
WKO 110	NCCER CORE	3

**Eligible for certifications in NCCER and EPA 608*

Semester 2

Item #	Title	Credits
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR	3
ACR 122	HVACR ELECTRIC CIRCUITS	3
ACR 123	HVAC/R ELECTRICAL COMPONENTS	3
	MTH 116 or any 100-level MTH	3

**Eligible for a Short-Term Certificate in Air Conditioning and Refrigeration and HVAC Excellence Electrical Certification*

Semester 3

Item #	Title	Credits
ACR 147	REFRIGERANT TRANSITION AND RECOVERY THEORY	3
ACR 134	ICE MACHINES	3
ACR 203	COMMERCIAL REFRIGERATION	3
ACR 205	SYSTEM SIZING AND AIR DISTRIBUTION	3
CIS 146	COMPUTER APPLICATION	3

Semester 4

Item #	Title	Credits
ACR 148	HEAT PUMP SYSTEMS I	3
ACR 210	TROUBLESHOOTING HVACR SYSTEMS	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3
	Area IV Elective	3
WKO 106	WORKPLACE SKILLS	3

**Eligible for a Certificate in Air Conditioning and Refrigeration, HVAC Excellence Troubleshooting Certification, National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 5

Item #	Title	Credits
ACR 128	HEAT LOAD CALCULATIONS	3
ACR 200	REVIEW FOR CONTRACTORS EXAM	3
Cooperative Education Electives 3		
Area II Humanities and Fine Arts 3 Elective		
Area IV Social and Behavioral Science Elective 3		

**Eligible to sit for the State of Alabama Heating and Air Conditioning Contractors Exam*

Eligible for AAS degree in Air Conditioning and Refrigeration

Total Credits	72
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Certificate in Air Conditioning and Refrigeration

Degree Type
Certificate

Success Guide

General Education Core

English Composition I

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR	3
ACR 122	HVACR ELECTRIC CIRCUITS	3
ACR 123	HVAC/R ELECTRICAL COMPONENTS	3
WKO 106	WORKPLACE SKILLS	3
Workplace Skills Enhancement		3
Technical Specialty (18 Credits)		18
Total Credits		54

Short-Term Certificate in Air Conditioning and Refrigeration

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR	3
ACR 122	HVACR ELECTRIC CIRCUITS	3
ACR 123	HVAC/R ELECTRICAL COMPONENTS	3
	Workplace Skills Enhancement	3
	Total Credits	21

Associate in Art

Associate in Art, Concentration: Art History

Degree Type

A.A.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities and Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Art Appreciation

Item #	Title	Credits
ART 100	ART APPRECIATION	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
ART 113	DRAWING I	3
ART 114	DRAWING II	3
ART 121	TWO-DIMENSIONAL COMPOSITION I	3
ART 127	THREE-DIMENSIONAL COMPOSITION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3

*Must take a 6-credit hour sequence in either literature or history.

Total Credits **62**

Associate in Art, Concentration: Art Studio

Degree Type

A.A.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Art Appreciation

Item #	Title	Credits
ART 100	ART APPRECIATION	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose one:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I - TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV: History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
ART 113	DRAWING I	3
ART 114	DRAWING II	3
ART 121	TWO-DIMENSIONAL COMPOSITION I	3
ART 127	THREE-DIMENSIONAL COMPOSITION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3

**Must take a 6-credit hour sequence in either literature or history.*

Total Credits 62

Associate in Art, Concentration: Art Studio B.F.A.

Degree Type
A.A.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Art Appreciation

Item #	Title	Credits
ART 100	ART APPRECIATION	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
ART 113	DRAWING I	3
ART 114	DRAWING II	3
ART 121	TWO-DIMENSIONAL COMPOSITION I	3
ART 127	THREE-DIMENSIONAL COMPOSITION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3

*Must take a 6-credit hour sequence in either literature or history.

Total Credits **62**

Associate in Art, Concentration: English Degree Type

A.A.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Item #	Title	Credits
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences

History

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
Area V Electives		4
Total Credits		60

Associate in Art, Concentration:

General/Pre-Liberal Arts

Degree Type

A.A.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
	Area V Electives	16
	Total Credits	60

*Must take a 6-credit hour sequence in either literature or history.

Associate in Art, Concentration: Music

Degree Type

A.A.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Item #	Title	Credits
MUS 101	MUSIC APPRECIATION	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose one:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
MUS 100	CONVOCATION	1
MUS 111	MUSIC THEORY I	4
MUS 112	MUSIC THEORY II	4

Music Ensembles

Item #	Title	Credits
	Music Ensembles	4

MUL Performance Group

Choose from:

Item #	Title	Credits
MUL 101	CLASS PIANO I	1
MUL 111	CLASS VOICE I	1
MUL 161	CLASS FRETTED INSTRUMENTS I	1
MUL 170	MUSIC WORKSHOP (GUITAR ENSEMBLE) I	1-3

Studio Classes

Item #	Title	Credits
	Studio Classes	4

*Must take a 6-credit hour sequence in either literature or history.

Total Credits 62

Associate in Art, Concentration: Theater
Degree Type
A.A.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
THR 113	THEATER WORKSHOP I	2

Acting Techniques/Stagecraft

Choose from:

Item #	Title	Credits
THR 131	ACTING TECHNIQUES I	3
THR 236	STAGECRAFT	3

Area V Electives

Item #	Title	Credits
	Area V Electives	13

*Must take a 6-credit hour sequence in either literature or history.

Total Credits **62**

Associate in Science

Associate in Science, Concentration:

Agricultural Business & Economics

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities and Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose one:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4

Principles of Biology I-II

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Principles of Macroeconomics

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3

General Psychology/Intro to Sociology

Choose from:

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BUS 271	BUSINESS STATISTICS I	3
BUS 272	BUSINESS STATISTICS II	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
Area V Electives (3 Credits)		3

*Must take a 6-credit hour sequence in history.

Total Credits **62**

Associate in Science, Concentration: Animal Sciences

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3

Social & Behavioral Sciences

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
CHM 221	ORGANIC CHEMISTRY I	4
	Area V Electives	4

**Must take a 6-credit hour sequence in history.*

Total Credits **60**

Associate in Science, Concentration: Architecture (AU Only)

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4

Physics Sequence

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4

-OR-

Item #	Title	Credits
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
PHL 206	ETHICS AND SOCIETY	3
Area V Electives		15

*Must take a 6-credit hour sequence in literature or history.

Total Credits **63**

Associate in Science, Concentration: Art Education

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Art Appreciation

Item #	Title	Credits
ART 100	ART APPRECIATION	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
ART 113	DRAWING I	3
ART 114	DRAWING II	3
ART 121	TWO-DIMENSIONAL COMPOSITION I	3
ART 127	THREE-DIMENSIONAL COMPOSITION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3

*Must take a 6-credit hour sequence in literature or history.

Total Credits 62

Associate in Science, Concentration:

Athletic Training

Degree Type

A.S.

Success Guide

Area I - Written Composition

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4

Physics

Choose from:

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
Area V Electives		8

*Must take a 6-credit hour sequence in literature or history.

Total Credits	60
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Associate in Science, Concentration:

Biology

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
	Area V Electives	8

**Must take a 6-credit hour sequence in literature or history.*

Total Credits		60
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Associate in Science, Concentration:
Biology Education - Middle/High School
Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, and Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
	Area V Electives (8 Credits)	8

*Must take a 6-credit hour sequence in literature or history.

Total Credits 60

Associate in Science, Concentration: Biomedical Sciences

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral

Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Mathematics

Item #	Title	Credits
MTH 125	CALCULUS I	4

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V Electives

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 221	ORGANIC CHEMISTRY I	4
CHM 222	ORGANIC CHEMISTRY II	4
HEC 140	PRINCIPLES OF NUTRITION	3
MTH 265	ELEMENTARY STATISTICS	3
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits 61

Associate in Science, Concentration: Building Science (AU Only)

Degree Type

A.S.

Success Guide

Area I - Written Communication (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Mathematics

Item #	Title	Credits
MTH 125	CALCULUS I	4

Physics

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
PHL 206	ETHICS AND SOCIETY	3
BUS 146	PERSONAL FINANCE	3
	Area V Electives	7

*Must take a 6-credit hour sequence in literature or history.

Total Credits **61**

Associate in Science, Concentration:

Business

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose one:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3

Social & Behavioral Sciences

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BUS 271	BUSINESS STATISTICS I	3
BUS 272	BUSINESS STATISTICS II	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 263	THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS	3

Calculus or History Elective

Choose from:

Item #	Title	Credits
	HIS Class	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4

**Must take a 6-credit hour sequence in literature.*

Total Credits **62**

Associate in Science, Concentration: Business Education - Middle/High School

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 263	THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS	3
Area V Electives (9 Credits)		9

**Must take a 6-credit hour sequence in literature.*

Total Credits 62

Associate in Science, Concentration:

Chemistry

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credit)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Mathematics

Item #	Title	Credits
MTH 125	CALCULUS I	4

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Physics Sequence

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4

-OR-

Item #	Title	Credits
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Mathematics

Item #	Title	Credits
MTH 126	CALCULUS II	4
	Area V Electives	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits	61
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Associate in Science, Concentration: Chemistry Education - Middle/High School

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Mathematics

Item #	Title	Credits
MTH 125	CALCULUS I	4

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Physics Sequence

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I-TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4

-OR-

Item #	Title	Credits
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Item #	Title	Credits
Area V Electives (8-10 Credits)		8-10

(MTH 126 preferred)

**Must take a 6-credit hour sequence in literature or history.*

Total Credits	61
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Associate in Science, Concentration:
Clinical Laboratory Sciences/Medical
Technology
Degree Type
A.S.
Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 103	PRINCIPLES OF BIOLOGY I	4
CHM 221	ORGANIC CHEMISTRY I	4
Area V Electives (8 Credits)		8

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration: Communication Studies or Speech

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
Area V Electives (18 Credits)		18
Total Credits		62

*Must take a 6-credit hour sequence in literature or history.

Associate in Science, Concentration: Computer Science

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (20 Credits)

Item #	Title	Credits
CIS 251	C++ PROGRAMMING	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
	Area V Electives (6 Credits)	6

*Must take a 6-credit hour sequence in literature or history.

Total Credits 61

Associate in Science, Concentration:

Criminal Justice

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CRJ 100	INTRODUCTION TO CRIMINAL JUSTICE	3

CRJ Elective

Choose from:

Item #	Title	Credits
CRJ 110	INTRODUCTION TO LAW ENFORCEMENT	3
CRJ 150	INTRODUCTION TO CORRECTIONS	3
CRJ 160	INTRODUCTION TO SECURITY	3
Item #	Title	Credits
	Area V Electives (12 Credits)	12

*Must take a 6-credit hour sequence in literature or history.

Total Credits 62

Associate in Science, Concentration: Crop and Soil Sciences

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3

Social & Behavioral Sciences

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (22 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
MTH 125	CALCULUS I	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 221	ORGANIC CHEMISTRY I	4
	Area V Electives (3 Credits)	3

*Must take a 6-credit hour sequence in history.

Associate in Science, Concentration:
Early Childhood Education (P-3) -
Athens Only

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (22 Credits)

Natural Sciences

Choose from:

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Mathematics Electives

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Children's Development

Item #	Title	Credits
CHD 206	CHILDREN'S HEALTH AND SAFETY	3
CHD 209	INFANT AND TODDLER EDUCATION PROGRAMS	3
	CHD Elective	3

*Must take a 6-credit hour sequence in literature or history.

Total Credits 63

Associate in Science, Concentration:
Early Childhood Education/Elementary
Education (P-6) JSU Only

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (22 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Children's Development

Item #	Title	Credits
CHD 203	CHILDREN'S LITERATURE AND LANGUAGE DEVELOPMENT	3
CHD 210	EDUCATING EXCEPTIONAL CHILDREN	3

Area III Electives representing a discipline other than biology

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Mathematics Electives

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

**Must take a 6-credit hour sequence in literature or history.*

Total Credits	63
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Associate in Science, Concentration:
Elementary/Early Childhood Education
(K-12)

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4

Natural Sciences

Choose from:

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Natural Sciences

Choose from:

Item #	Title	Credits
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Mathematics Electives

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Item #	Title	Credits
	Area V Electives (3 Credits)	3

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration:
Engineering - Aerospace
Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
CHM 111	COLLEGE CHEMISTRY I	4

Elective

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
CHM 112	COLLEGE CHEMISTRY II	4
MTH 237	LINEAR ALGEBRA	3
PHL 206	ETHICS AND SOCIETY	3
Item #	Title	Credits
Area V Electives (4 Credits)		4

*Must take a 6-credit hour sequence in history.

Total Credits **61**

Associate in Science, Concentration: Engineering - Biomedical (UAB Only)

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Elective

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
Area V Electives (22 Credits)		22

*Must take a 6-credit hour sequence in history.

Total Credits **61**

Associate in Science, Concentration: Engineering - Chemical

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
Item #	Title	Credits
Area V Electives (6 Credits)		6

*Must take a 6-credit hour sequence in history.

Total Credits 61

Associate in Science, Concentration: Engineering - Civil

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Elective

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
CHM 111	COLLEGE CHEMISTRY I	4

Biology or Chemistry

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
CHM 112	COLLEGE CHEMISTRY II	4
Item #	Title	Credits
	Area V Electives (3 Credits)	3

*Must take a 6-credit hour sequence in history.

Total Credits 61

Associate in Science, Concentration:

Engineering - Computer

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Electives

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
CHM 111	COLLEGE CHEMISTRY I	4
Area V Electives (7 Credits)		7

*Must take a 6-credit hour sequence in history.

Total Credits 61

Associate in Science, Concentration:
Engineering - Computer Science Option
Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3

Mathematics Elective

Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3

Science Elective

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4

Item #	Title	Credits
	Area V Electives (7 Credits)	7

*Must take a 6-credit hour sequence in history.

Total Credits	61
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Associate in Science, Concentration:
Engineering - Electrical

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or
Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences &
Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral
Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, &
Elective Courses (25 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
CHM 111	COLLEGE CHEMISTRY I	4
Area V Electives (4 Credits)		4

*Must take a 6-credit hour sequence in history.

Total Credits	61
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Associate in Science, Concentration:
Engineering - Industrial

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
CHM 111	COLLEGE CHEMISTRY I	4
Area V Electives (4 Credits)		4

*Must take a 6-credit hour sequence in history.

Total Credits 61

Associate in Science, Concentration: Engineering - Materials

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (28 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
Area V Electives (3 Credits)		3

*PHL 206 recommended

*Must take a 6-credit hour sequence in history.

Total Credits	64
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Associate in Science, Concentration: Engineering - Mechanical

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (9 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (9 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (25 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3

Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
CHM 111	COLLEGE CHEMISTRY I	4
Area V Electives (3 Credits)		3

Biology or Chemistry

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
CHM 112	COLLEGE CHEMISTRY II	4
Total Credits		61

Associate in Science, Concentration:
English/Language Arts Education -
Middle/High School

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Theatre

Choose from:

Item #	Title	Credits
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
Area V Electives (4 Credits)		4
Total Credits		60

**Associate in Science, Concentration:
Environmental Science**

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
Area V Electives (8 Credits)		8

*Must take a 6-credit hour sequence in literature or history.

Total Credits 60

Associate in Science, Concentration:
Family & Consumer Sciences

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I - TRIG BASED	4
PHY 202	GENERAL PHYSICS II - TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
HEC 140	PRINCIPLES OF NUTRITION	3
Area V Electives (13 Credits)		13

**Must take a 6-credit hour sequence in literature or history.*

Total Credits		60
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Associate in Science, Concentration: Fisheries Science

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3

Social & Behavioral Sciences

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
CHM 221	ORGANIC CHEMISTRY I	4
Area V Electives (4 Credits)		4

**Must take a 6-credit hour sequence in history.*

Associate in Science, Concentration:

Forestry

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (20 Credits)

CIS Elective

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Chemistry Elective Sequence

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4

-OR-

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
Item #	Title	Credits
MTH 265	ELEMENTARY STATISTICS	3
	Area V Electives (6 Credits)	6

**Must take a 6-credit hour sequence in history.*

Total Credits	61
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Associate in Science, Concentration:
General Science Education - Middle/
High School

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 125	CALCULUS I	4

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Physics

Choose from:

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4

Item #	Title	Credits
	Area V Electives (4 Credits)	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits

60

Associate in Science, Concentration: Health Science

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER 3	

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
Area V Electives (12 Credits)		12
<i>*Must take a 6-credit hour sequence in literature or history.</i>		
Total Credits		60

Associate in Science, Concentration: History
Degree Type
 A.S.
Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History Sequence

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

History Sequence

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Item #	Title	Credits
	Area V Electives (10 Credits)	10
	Total Credits	60

Associate in Science, Concentration:
History Education - Middle/High School
Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I - TRIG BASED	4
PHY 202	GENERAL PHYSICS II - TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
Area V Electives (10 Credits)		10
Total Credits		60

Associate in Science, Concentration:
Horticulture
Degree Type
A.S.
Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences*

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

*Must take a 6-credit hour sequence in history.

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CHM 111	COLLEGE CHEMISTRY I	4
	Area V Electives (12 Credits)	12
	Total Credits	60

Associate in Science, Concentration:

Industrial Hygiene

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Natural Sciences

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
BIO 220	GENERAL MICROBIOLOGY	4
CHM 221	ORGANIC CHEMISTRY I	4
CHM 222	ORGANIC CHEMISTRY II	4
MTH 126	CALCULUS II	4
MTH 265	ELEMENTARY STATISTICS	3
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits 61

Associate in Science, Concentration:

Kinesiology and Exercise Science

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4

Chemistry

Choose from:

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 111	COLLEGE CHEMISTRY I	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History Class Maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4

HED-PED Electives

Item #	Title	Credits
HED 224	PERSONAL AND COMMUNITY HEALTH	3
HED 226	WELLNESS	1-3
HED 230	SAFETY AND FIRST AID	3
PED 200	FOUNDATIONS OF PHYSICAL EDUCATION	3

Item #	Title	Credits
Area V Electives (9 Credits)		9

*Must take a 6-credit hour sequence in literature or history.

Total Credits 60

Associate in Science, Concentration:
 Mathematics
 Degree Type
 A.S.
 Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
Area V Electives (4 Credits)		4

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration: Mathematics Education - Middle/High School

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I - TRIG BASED	4
PHY 202	GENERAL PHYSICS II - TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
Item #	Title	Credits
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
	Area V Electives (4 Credits)	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits 60

Associate in Science, Concentration:
Music Education

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Music Appreciation

Item #	Title	Credits
MUS 101	MUSIC APPRECIATION	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (22 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
MUS 111	MUSIC THEORY I	4
MUS 112	MUSIC THEORY II	4

Computer Application in Music or Recording Techniques

Choose from:

Item #	Title	Credits
MUS 116	COMPUTER APPLICATIONS IN3 MUSIC	
MUS 293	RECORDING TECHNIQUES	3

Item #	Title	Credits
	Music Ensembles	4
	Studio Classes	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits **63**

Associate in Science, Concentration:

Nutrition

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication and Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4

-OR-

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
HEC 140	PRINCIPLES OF NUTRITION	3
Area V Electives (13 Credits)		13

*Must take a 6-credit hour sequence in literature or history.

**Associate in Science, Concentration:
Physical Education**

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

**Fundamentals of Oral Communication or
Public Speaking**

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

**Area III - Natural Sciences &
Mathematics (12 Credits)**

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4

Health or Physical Education

Choose from:

Item #	Title	Credits
HED 224	PERSONAL AND COMMUNITY HEALTH	3
HED 226	WELLNESS	1-3
HED 230	SAFETY AND FIRST AID	3
PED 200	FOUNDATIONS OF PHYSICAL EDUCATION	3
Area V Electives (6 Credits)		6

*Must take a 6-credit hour sequence in literature or history.

Total Credits 60

Associate in Science, Concentration: Physics

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

CIS Elective

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
CHM 111	COLLEGE CHEMISTRY I	4
Area V Electives (3 Credits)		3

CHM 112 is preferred

Linear Algebra/Applied Differential Equations I

Choose from:

Item #	Title	Credits
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

**Must take a 6-credit hour sequence in literature or history.*

Total Credits 63

Associate in Science, Concentration:
Physics Education
Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

CIS Elective

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 251	C++ PROGRAMMING	3

Mathematics

Item #	Title	Credits
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4

Linear Algebra/Applied Differential Equations I

Choose from:

Item #	Title	Credits
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
	Area V Electives (3 Credits)	3

CHM 112 is preferred

*Must take a 6-credit hour sequence in literature or history.

Total Credits 63

Associate in Science, Concentration:

Political Science

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
POL 220	STATE AND LOCAL GOVERNMENT	3
Area V Electives (7 Credits)		7

Western Civ II or U.S. History II

Choose from:

Item #	Title	Credits
HIS 102	WESTERN CIVILIZATION II	3
HIS 202	UNITED STATES HISTORY II	3

**Must take a 6-credit hour sequence in literature or history.*

Total Credits		60
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Associate in Science, Concentration:

Poultry Science

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3

Social & Behavioral Sciences

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (22 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 221	ORGANIC CHEMISTRY I	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
Area V Electives (3 Credits)		3

**Must take a 6-credit hour sequence in history.*

Total Credits **63**

Associate in Science, Concentration:

Pre-Medicine

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Science Electives

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 221	ORGANIC CHEMISTRY I	4
CHM 222	ORGANIC CHEMISTRY II	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits 61

Associate in Science, Concentration:

Pre-Nursing

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
BIO 103	PRINCIPLES OF BIOLOGY I	4

Introduction to Chemistry I

Choose from:

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 111	COLLEGE CHEMISTRY I	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

General Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
BIO 220	GENERAL MICROBIOLOGY	4
MTH 265	ELEMENTARY STATISTICS	3
Area V Electives (3 Credits)		3

*Must take a 6-credit hour sequence in literature or history.

Total Credits 62

Associate in Science, Concentration:
Pre-Occupational Therapy
Degree Type
A.S.

The Occupational Therapy Programs at Alabama State, the University of South Alabama and the University of Alabama at Birmingham are now offered only at the Master's level. Please check the home pages of these institutions for more information regarding these programs.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
BIO 103	PRINCIPLES OF BIOLOGY I	4

Physics

Choose from:

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
MTH 265	ELEMENTARY STATISTICS	3
Area V Electives (5 Credits)		5

*Must take a 6-credit hour sequence in literature.

Total Credits **60**

Associate in Science, Concentration: Pre-Optometry

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
BIO 220	GENERAL MICROBIOLOGY	4
CHM 221	ORGANIC CHEMISTRY I	4
MTH 265	ELEMENTARY STATISTICS	3
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4
<i>*Must take a 6-credit hour sequence in literature or history.</i>		
Total Credits		61

Associate in Science, Concentration: Pre-Pharmacy - Auburn

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics/Government

Choose from:

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3

Social & Behavioral Sciences

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses ** (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Pre-Professional, Major, & Elective Courses

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
CHM 221	ORGANIC CHEMISTRY I	4
CHM 222	ORGANIC CHEMISTRY II	4
MTH 265	ELEMENTARY STATISTICS	3

*Must take a 6-credit hour sequence in history.

**Microbiology and Chemistry must be taken at a college/university that awards bachelor's degrees.

Total Credits	61
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Associate in Science, Concentration: Pre-Pharmacy - Samford

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (12 Credits)

Item #	Title	Credits
MTH 125	CALCULUS I	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology or Sociology

Choose from:

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Pre-Professional, Major, & Elective Courses

Choose from:

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
BIO 220	GENERAL MICROBIOLOGY	4
CHM 221	ORGANIC CHEMISTRY I	4
CHM 222	ORGANIC CHEMISTRY II	4
MTH 265	ELEMENTARY STATISTICS	3
	PED Elective	3
HED 226	WELLNESS	1-3

**Must take a 6-credit hour sequence in history.*

Total Credits 61

Associate in Science, Concentration:

Pre-Physical Therapy

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4

Pre-Professional, Major, & Elective Courses

Choose from:

Item #	Title	Credits
BIO 104	PRINCIPLES OF BIOLOGY II	4
MTH 265	ELEMENTARY STATISTICS	3
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration:
Pre-Physician Assistant

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences*

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

*Must take a 6-credit hour sequence in literature or history.

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Pre-Professional, Major, & Elective Courses

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
BIO 220	GENERAL MICROBIOLOGY	4
CHM 221	ORGANIC CHEMISTRY I	4
MTH 265	ELEMENTARY STATISTICS	3
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3
Total Credits		60

Associate in Science, Concentration:
Pre-Respiratory Therapy/
Cardiopulmonary Sciences

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4

-OR-

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology and Sociology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Pre-Professional, Major, & Elective Courses

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
BIO 220	GENERAL MICROBIOLOGY	4
MTH 265	ELEMENTARY STATISTICS	3
PHY 201	GENERAL PHYSICS I -TRIG BASED	4

*Must take a 6-credit hour sequence in literature or history.

Total Credits 60

Associate in Science, Concentration:
Pre-Veterinary Medicine

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Chemistry

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics

Item #	Title	Credits
ECO 232	PRINCIPLES OF MICROECONOMICS	3

Social & Behavioral Sciences

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Pre-Professional, Major, & Elective Courses

Choose from:

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 221	ORGANIC CHEMISTRY I	4
CHM 222	ORGANIC CHEMISTRY II	4
MTH 125	CALCULUS I	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4

**Must take a 6-credit hour sequence in history.*

Total Credits **60**

Associate in Science, Concentration: Psychology

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
PSY 200	GENERAL PSYCHOLOGY	3
Area V Electives (13 Credits)		13

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration: Radiologic Sciences

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
MTH 265	ELEMENTARY STATISTICS	3
Area V Electives (3 Credits)		3

Physics

Choose from:

Item #	Title	Credits
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I - TRIG BASED	4

*Must take a 6-credit hour sequence in literature or history.

Associate in Science, Concentration:
Religious Studies

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
Area V Electives (13 Credits)		13

Religious Studies

Choose from:

Item #	Title	Credits
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration: Social Studies Education - Middle/High School

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I - TRIG BASED	4
PHY 202	GENERAL PHYSICS II - TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
PSY 200	GENERAL PSYCHOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
Area V Electives (4 Credits)		4
Total Credits		60

Associate in Science, Concentration:

Social Work

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Psychology & Sociology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
MTH 265	ELEMENTARY STATISTICS	3
ECO 231	PRINCIPLES OF MACROECONOMICS	3
Area V Electives (10 Credits)		10

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration:

Spanish Education

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I - TRIG BASED	4
PHY 202	GENERAL PHYSICS II - TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (20 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
Area V Electives (3 Credits)		3

**Must take a 6-credit hour sequence in literature or history.*

Total Credits	61
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Associate in Science, Concentration: Special Education

Degree Type
A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Natural Sciences

Choose from:

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Mathematics Electives

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Item #	Title	Credits
	Area V Electives (3 Credits)	3

*Must take a 6-credit hour sequence in literature or history.

Total Credits **60**

Associate in Science, Concentration:

Speech Pathology

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature*

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4

Natural Sciences

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History*

Choose from:

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

History, Social, & Behavioral Sciences

(1 History class maximum)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (19 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
Area V Electives (10 Credits)		10
<i>*Must take a 6-credit hour sequence in literature or history.</i>		
Total Credits		60

Associate in Science, Concentration:

Wildlife Ecology

Degree Type

A.S.

Success Guide

Area I - Written Composition (6 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Area II - Humanities & Fine Arts (12 Credits)

Literature

Choose from:

Item #	Title	Credits
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
ENG 271	WORLD LITERATURE I	3
ENG 272	WORLD LITERATURE II	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Ethics & Society

Item #	Title	Credits
PHL 206	ETHICS AND SOCIETY	3

Area III - Natural Sciences & Mathematics (11 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4

Area IV - History, Social, & Behavioral Sciences (12 Credits)

History Sequence*

Item #	Title	Credits
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3

-OR-

Item #	Title	Credits
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3

Economics/Political Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3

Social & Behavioral Sciences

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (21 Credits)

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
Area V Electives (3 Credits)		3

Chemistry Sequence

Item #	Title	Credits
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4

-OR-

Item #	Title	Credits
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4

Statistics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 265	ELEMENTARY STATISTICS	3

Physics

Choose from:

Item #	Title	Credits
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4

*Must take a 6-credit hour sequence in history.

Total Credits	62
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Building Construction

Associate in Applied Science, Building Construction - Carpentry

Degree Type

A.A.S.

Area I - Written Composition (3 Credits)

Technical English or English Composition

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

CIS Elective

Item #	Title	Credits
	CIS Elective (3 Credits)	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

History, Social, & Behavioral Sciences

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (42 Credits)

Technical Core

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
	Technical Cooperative Education	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3

Other Courses

Item #	Title	Credits
CAR 111	CONSTRUCTION BASICS	3
CAR 112	FLOORS, WALLS, AND SITE PREP	3
CAR 113	FLOORS, WALLS, SITE PREP LAB	3
CAR 114	CONSTRUCTION BASICS LAB	3
CAR 226	METAL FRAMING	3
BUC 131	INTERIOR AND EXTERIOR FINISHES	3
BUC 133	BUILDING CODES	3
BUC 142	CONSTRUCTION ESTIMATING	3
	Advisor Approved Electives (6 Credits)	6
Total Credits		60

Associate in Applied Science, Building Construction - Electrical

Degree Type
A.A.S.

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

CIS Elective

Item #	Title	Credits
	CIS Elective (3 Credits)	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (43 Credits)

Technical Core

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
	Technical Cooperative Education	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3

Other Courses:

Item #	Title	Credits
ILT 118	CONSTRUCTION WIRING NEC3	3
ILT 231	NATIONAL ELECTRIC CODE	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
CMT 209	ELECTRICAL & MECHANICAL EQUIPMENT IN BUILDINGS	4
ILT 166	MOTORS AND TRANSFORMERS I	3
BUC 133	BUILDING CODES	3
BUC 142	CONSTRUCTION ESTIMATING	3
	Advisor Approved Electives (6 Credits)	6
	Total Credits	61

Associate in Applied Science, Building Construction - General
Degree Type

A.A.S.

Area I - Written Composition (3 Credits)

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

CIS Elective

Item #	Title	Credits
	CIS Elective (3 Credits)	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (42 Credits)

Technical Core

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
	Technical Cooperative Education	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3

Other Courses

Item #	Title	Credits
CAR 111	CONSTRUCTION BASICS	3
CAR 114	CONSTRUCTION BASICS LAB	3
ILT 118	CONSTRUCTION WIRING NEC	3
ILT 231	NATIONAL ELECTRIC CODE	3
BUC 133	BUILDING CODES	3
BUC 142	CONSTRUCTION ESTIMATING	3
PLB 111	INTRODUCTION TO PLUMBING	3
PLB 112	PLUMBING APPLICATIONS	3
	Advisor Approved Electives (6 Credits)	6
Total Credits		60

Associate in Applied Science, Building Construction - Heating & Cooling

Degree Type
A.A.S.

Area I - Written Composition (3 Credits) Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

CIS Elective

Item #	Title	Credits
	CIS Elective (3 Credits)	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area IV - History, Social, & Behavioral Sciences (42 Credits)

Technical Core

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
	Technical Cooperative Education	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3

Other Courses:

Item #	Title	Credits
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR	3
ACR 122	HVACR ELECTRIC CIRCUITS	3
ACR 123	HVAC/R ELECTRICAL COMPONENTS	3
ACR 147	REFRIGERANT TRANSITION AND RECOVERY THEORY	3
ACR 210	TROUBLESHOOTING HVACR SYSTEMS	3
	Advisor Approved Electives (6 Credits)	6
	Total Credits	60

Associate in Applied Science, Building
Construction - Masonry & Concrete

Degree Type
A.A.S.

Area I - Written Composition (3 Credits)

Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

CIS Elective

Item #	Title	Credits
	CIS Elective (3 Credits)	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (42 Credits)

Technical Core

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
	Technical Cooperative Education	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3

Other Courses

Item #	Title	Credits
MAS 111	MASONRY FUNDAMENTALS	3
MAS 121	BRICK/BLOCK MASONRY FUNDAMENTALS	3
MAS 131	BRICK/BLOCK MASONRY FUNDAMENTALS II	3
MAS 151	BRICK/BLOCK MASONRY FUNDAMENTALS III	3
BUC 141	ON-GRADE CONCRETE APPLICATIONS	3
BUC 143	ABOVE-GRADE CONCRETE APPLICATIONS	3
BUC 133	BUILDING CODES	3
BUC 142	CONSTRUCTION ESTIMATING	3
	Advisor Approved Electives (6 Credits)	6
Total Credits		60

Associate in Applied Science, Building Construction - Plumbing

Degree Type

A.A.S.

Area I - Written Composition (3 Credits)

Technical English or English Composition I

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

CIS Elective

Item #	Title	Credits
	CIS Elective (3 Credits)	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (42 Credits)

Technical Core

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
	Technical Cooperative Education	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3

Other Courses

Item #	Title	Credits
PLB 111	INTRODUCTION TO PLUMBING	3
PLB 112	PLUMBING APPLICATIONS	3
PLB 113	PIPES & FITTINGS	3
PLB 114	JOINING PIPES & FITTINGS	3
PLB 115	PRESSURE & NON-PRESSURE SYSTEMS	3
PLB 116	PRESSURE & NON-PRESSURE SYSTEMS APPLICATIONS	3
PLB 211	PLUMBING & REPAIR & INSTALLATION	3
PLB 212	PLUMBING REPAIR & INSTALLATION LABORATORY	3
	Advisor Approved Electives (6 Credits)	6
Total Credits		60

Certificate in Building Construction - Carpentry Degree Type

Certificate Success Guide

General Education Core

Technical English or English Composition I

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3
CAR 111	CONSTRUCTION BASICS	3
CAR 112	FLOORS, WALLS, AND SITE PREP	3
CAR 113	FLOORS, WALLS, SITE PREP LAB	3
CAR 114	CONSTRUCTION BASICS LAB	3
BUC 133	BUILDING CODES	3
BUC 142	CONSTRUCTION ESTIMATING	3
Total Credits		33

Certificate in Building Construction -
Electrical
Degree Type
Certificate
Success Guide

General Education Core
Technical English or English Composition

I
Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3
ILT 118	CONSTRUCTION WIRING NEC3	3
ILT 231	NATIONAL ELECTRIC CODE	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
CMT 209	ELECTRICAL & MECHANICAL EQUIPMENT IN BUILDINGS	4
ILT 166	MOTORS AND TRANSFORMERS I	3

Total Credits

34

Certificate in Building Construction -
General

Degree Type
Certificate

Success Guide

General Education Core
Technical Education or English
Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3
CAR 111	CONSTRUCTION BASICS	3
CAR 114	CONSTRUCTION BASICS LAB	3
ILT 118	CONSTRUCTION WIRING NEC	3
ILT 231	NATIONAL ELECTRIC CODE	3
BUC 133	BUILDING CODES	3
BUC 142	CONSTRUCTION ESTIMATING	3
Total Credits		33

Certificate in Building Construction - Heating & Cooling

Degree Type
Certificate

Success Guide

General Education Core

Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR	3
ACR 122	HVACR ELECTRIC CIRCUITS	3
ACR 123	HVAC/R ELECTRICAL COMPONENTS	3
Total Credits		33

Certificate in Building Construction - Masonry & Concrete

Degree Type
Certificate

Success Guide

General Education Core

Technical English or English Composition

I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3
MAS 111	MASONRY FUNDAMENTALS	3
MAS 121	BRICK/BLOCK MASONRY FUNDAMENTALS	3
MAS 131	BRICK/BLOCK MASONRY FUNDAMENTALS II	3
MAS 151	BRICK/BLOCK MASONRY FUNDAMENTALS III	3
BUC 141	ON-GRADE CONCRETE APPLICATIONS	3
BUC 143	ABOVE-GRADE CONCRETE APPLICATIONS	3
	Total Credits	33

Certificate in Building Construction - Plumbing

Degree Type

Certificate

Success Guide

General Education Core

Technical English or English Composition

I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3
PLB 111	INTRODUCTION TO PLUMBING	3
PLB 112	PLUMBING APPLICATIONS	3
PLB 113	PIPES & FITTINGS	3
PLB 114	JOINING PIPES & FITTINGS	3
PLB 115	PRESSURE & NON-PRESSURE SYSTEMS	3
PLB 116	PRESSURE & NON-PRESSURE SYSTEMS APPLICATIONS	3
Total Credits		33

Short-Term Certificate in Building Construction - Acoustic/Ceiling Insulation

Degree Type
Certificate

[Success Guide](#)

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
BUC 232	INSULATING & ENERGY EFFICIENCY	3
BUC 231	SUSPENDING CEILINGS	3
Total Credits		9

Short-Term Certificate in Building Construction - Building Maintenance

Degree Type
Certificate

[Success Guide](#)

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
CAR 111	CONSTRUCTION BASICS	3
ILT 118	CONSTRUCTION WIRING NEC3	3
PLB 111	INTRODUCTION TO PLUMBING	3
Total Credits		12

Short-Term Certificate in Building Construction - Carpentry

Degree Type
Certificate

[Success Guide](#)

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
CAR 111	CONSTRUCTION BASICS	3
CAR 114	CONSTRUCTION BASICS LAB	3
Total Credits		9

Short-Term Certificate in Building Construction - Concrete

Degree Type
Certificate

[Success Guide](#)

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
BUC 141	ON-GRADE CONCRETE APPLICATIONS	3
BUC 143	ABOVE-GRADE CONCRETE APPLICATIONS	3
Total Credits		9

Short-Term Certificate in Building Construction - Construction Equipment

Degree Type
Certificate

[Success Guide](#)

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
HEO 100	INTRODUCTION TO CONSTRUCTION EQUIPMENT	3
HEO 101	BASIC OPERATIONAL TECHNIQUES	3
Total Credits		9

Short-Term Certificate in Building
Construction - Construction

Fundamentals

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
BUC 133	BUILDING CODES	3
BUC 142	CONSTRUCTION ESTIMATING	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3
Total Credits		9

Short-Term Certificate in Building
Construction - Drywall

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
CAR 114	CONSTRUCTION BASICS LAB	3
CAR 132	INTERIOR AND EXTERIOR FINISH	3
BUC 233	DRYWALL INSTALLATION & FINISHING	3
Total Credits		12

Short-Term Certificate in Building
Construction - Electrical

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
ILT 118	CONSTRUCTION WIRING NEC	3
ILT 231	NATIONAL ELECTRIC CODE	3
Total Credits		9

Short-Term Certificate in Building
Construction - Exterior Finishing

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
CAR 132	INTERIOR AND EXTERIOR FINISH	3
CAR 114	CONSTRUCTION BASICS LAB	3
Total Credits		9

Short-Term Certificate in Building
Construction - Heating and Cooling

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
Total Credits		12

Short-Term Certificate in Building
Construction - Masonry

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
MAS 111	MASONRY FUNDAMENTALS	3
MAS 121	BRICK/BLOCK MASONRY FUNDAMENTALS	3
Total Credits		9

Short-Term Certificate in Building Construction - Plumbing

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
PLB 111	INTRODUCTION TO PLUMBING	3
PLB 112	PLUMBING APPLICATIONS	3
Total Credits		9

Short-Term Certificate in Building Construction - Roofing

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
CAR 114	CONSTRUCTION BASICS LAB 3	
CAR 131	ROOF AND CEILING SYSTEMS3	
CAR 133	ROOF AND CEILING SYSTEMS3 LAB	
Total Credits		12

Short-Term Certificate in Building Construction - Stone & Tile

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
BUC 230	FUNDAMENTALS OF TILE INSTALLATION	3
MAS 211	STONE MASONRY	3
Total Credits		9

Short-Term Certificate in Carpentry - Level 1

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 110	NCCER CORE	3
CAR 111	CONSTRUCTION BASICS	3
CAR 112	FLOORS, WALLS, AND SITE PREP	3
CAR 113	FLOORS, WALLS, SITE PREP LAB	3
CAR 114	CONSTRUCTION BASICS LAB 3	
Total Credits		15

Short-Term Certificate in Carpentry - Level 2

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CMT 102	CONSTRUCTION BLUEPRINT READING	3
CAR 122	CONCRETE AND FORMING	3
CAR 123	CONCRETE AND FORMING LAB	3
CAR 226	METAL FRAMING	3
BUC 131	INTERIOR AND EXTERIOR FINISHES	3
MAS 111	MASONRY FUNDAMENTALS	3
Total Credits		18

Business

Associate in Applied Science, Business Administration

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Business Program will be able to:

- Demonstrate competence in financial accounting process and systems. (BUS 241)
- Demonstrate an understanding of macroeconomic theory, analysis, and policy applications, including

supply and demand and market equilibrium, the American banking system and the Federal Reserve. (ECO 231)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (48 Credits)

Item #	Title	Credits
ACC 129	INDIVIDUAL INCOME TAXES	3
ACT 249	PAYROLL ACCOUNTING	3
BUS 215	BUSINESS COMMUNICATION	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 248	MANAGERIAL ACCOUNTING	3
BUS 263	THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS	3
BUS 275	PRINCIPLES OF MANAGEMENT	3
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3

Computerized Accounting

Choose from:

Item #	Title	Credits
BUS 245	ACCOUNTING WITH QUICKBOOKS	3
BUS 246	COMPUTERIZED ACCOUNTING	3

Advisor-Approved Electives

Choose from:

Item #	Title	Credits
BUS 146	PERSONAL FINANCE	3
BUS 147	INTRO TO FINANCE	3
BUS 175	RETAILING	3
BUS 176	PROMOTIONAL STRATEGIES	3
BUS 177	SALESMANSHIP	3
BUS 186	ELEMENTS OF SUPERVISION	3
BUS 271	BUSINESS STATISTICS I	3
BUS 272	BUSINESS STATISTICS II	3
BUS 276	HUMAN RESOURCE MANAGEMENT	3
BUS 279	SMALL BUSINESS MANAGEMENT	3
BUS 285	PRINCIPLES OF MARKETING	3
BUS 296	BUSINESS INTERNSHIP	3
OAD 101	BEGINNING KEYBOARDING	3
OAD 103	INTERMEDIATE KEYBOARDING	3
OAD 125	WORD PROCESSING	3
OAD 131	BUSINESS ENGLISH	3
OAD 138	RECORDS/INFORMATION MANAGEMENT	3
OAD 218	OFFICE PROCEDURES	3
OAD 243	SPREADSHEET APPLICATIONS	3
WKO 106	WORKPLACE SKILLS	3
	Total Credits	66

General Short-Term Certificate in Accounting

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 215	BUSINESS COMMUNICATION	3
BUS 248	MANAGERIAL ACCOUNTING	3
BUS 245	ACCOUNTING WITH QUICKBOOKS	3
ACC 129	INDIVIDUAL INCOME TAXES	3
ACT 249	PAYROLL ACCOUNTING	3
	Any OAD course or WKO 106	6
	Total Credits	27

Child Development

Associate in Applied Science, Child Development

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Child Development Program will be able to:

- Function as a competent entry-level child care worker by performing necessary skills for working in a child care facility. (CHD 215)
- Plan programs that promote and maintain safe and healthy learning environments. (CHD 206)
- Apply foundational knowledge of methods and materials for teaching young children from birth to age 8. (CHD 204)
- Exhibit a positive work ethic. (CHD 215)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Psychology or Sociology

Choose from:

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3

Area V - Pre-Professional, Major, & Elective Courses (45 Credits)

Item #	Title	Credits
CHD 100	INTRODUCTION TO EARLY CARE AND EDUCATION OF CHILDREN	3
CHD 201	CHILD GROWTH AND DEVELOPMENT PRINCIPLES	3
CHD 202	CHILDREN'S CREATIVE EXPERIENCES	3
CHD 203	CHILDREN'S LITERATURE AND LANGUAGE DEVELOPMENT	3
CHD 204	METHODS AND MATERIALS FOR TEACHING CHILDREN	3
CHD 205	PROGRAM PLANNING FOR EDUCATING YOUNG CHILDREN	3
CHD 206	CHILDREN'S HEALTH AND SAFETY	3
CHD 209	INFANT AND TODDLER EDUCATION PROGRAMS	3
CHD 210	EDUCATING EXCEPTIONAL CHILDREN	3
CHD 215	SUPERVISED PRACTICAL EXPERIENCE IN CHILD DEVELOPMENT	3
CHD 214	FAMILIES AND COMMUNITIES IN EARLY CARE AND EDUCATION PROGRAMS	3
WKO 106	WORKPLACE SKILLS	3

Program Electives

Choose from:

Item #	Title	Credits
BUS 215	BUSINESS COMMUNICATION	3
CHD 217	MATH AND SCIENCE FOR YOUNG CHILDREN	3
PHL 206	ETHICS AND SOCIETY	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3
SPA 101	INTRODUCTORY SPANISH I	4
SPA 102	INTRODUCTORY SPANISH II	4
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
Total Credits		66

Short-Term Certificate in Child Development

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CHD 201	CHILD GROWTH AND DEVELOPMENT PRINCIPLES	3
CHD 205	PROGRAM PLANNING FOR EDUCATING YOUNG CHILDREN	3
CHD 210	EDUCATING EXCEPTIONAL CHILDREN	3
Total Credits		9

Short-Term Certificate in Early Childhood Education

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CHD 206	CHILDREN'S HEALTH AND SAFETY	3
CHD 209	INFANT AND TODDLER EDUCATION PROGRAMS	3

Elective

Choose from:

Item #	Title	Credits
CHD 203	CHILDREN'S LITERATURE AND LANGUAGE DEVELOPMENT	3
CHD 204	METHODS AND MATERIALS FOR TEACHING CHILDREN	3
CHD 205	PROGRAM PLANNING FOR EDUCATING YOUNG CHILDREN	3
CHD 215	SUPERVISED PRACTICAL EXPERIENCE IN CHILD DEVELOPMENT	3
Total Credits		9

Short-Term Certificate in Infant/Toddler

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CHD 100	INTRODUCTION TO EARLY CARE AND EDUCATION OF CHILDREN	3
CHD 206	CHILDREN'S HEALTH AND SAFETY	3
CHD 209	INFANT AND TODDLER EDUCATION PROGRAMS	3
Total Credits		9

Short-Term Certificate in Preschool/ Family Child Care

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CHD 100	INTRODUCTION TO EARLY CARE AND EDUCATION OF CHILDREN	3
CHD 206	CHILDREN'S HEALTH AND SAFETY	3
CHD 204	METHODS AND MATERIALS FOR TEACHING CHILDREN	3
Total Credits		9

Computer Science

Associate in Applied Science, Computer Information Systems

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Computer Information Systems Program will be able to:

- The student will demonstrate knowledge of computer terminology and components. (CIS 199)
- The student will install, configure, and upgrade a computer operating system. (CIS 268)
- The student will install and troubleshoot computer hardware. (CIS 269)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (42 Credits)

Item #	Title	Credits
CIS 149	INTRODUCTION TO COMPUTERS	3
CIS 150	INTRODUCTION TO COMPUTER LOGIC AND PROGRAMMING	3
CIS 199	NETWORK COMMUNICATIONS	3
CIS 268	SOFTWARE SUPPORT	3
CIS 269	HARDWARE SUPPORT	3

CIS Electives

Item #	Title	Credits
	CIS Electives (9 Credits)	9

Python, Visual Basic, or C++ Programming

Item #	Title	Credits
CIS 202	PYTHON PROGRAMMING	3
CIS 212	VISUAL BASIC PROGRAMMING	3
CIS 251	C++ PROGRAMMING	3

MTH 112 or higher

(excluding MTH 116)

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

OAD 101, OAD 103, OAD 143, WKO 106, MTH, Science, Business Electives

Item #	Title	Credits
	OAD 101, OAD 103, OAD 143, WKO 106, MTH, Science, Business Electives	3

CIS, OAD 101, OAD 103, OAD 243, WKO 106, MTH, Science, Business Electives

Item #	Title	Credits
	CIS, OAD 101, OAD 103, OAD 243, WKO 106, MTH, Science, Business Electives	9
	Total Credits	63

Associate in Applied Science, Computer Information Systems - Cybersecurity

Option

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Computer Information Systems Program will be able to:

- The student will demonstrate knowledge of computer terminology and components. (CIS 199)
- The student will install, configure, and upgrade a computer operating system. (CIS 268)
- The student will install and troubleshoot computer hardware. (CIS 269)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Programming Elective

Choose from:

Item #	Title	Credits
CIS 202	PYTHON PROGRAMMING	3
CIS 212	VISUAL BASIC PROGRAMMING	3
CIS 251	C++ PROGRAMMING	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (42 Credits)

Item #	Title	Credits
CIS 149	INTRODUCTION TO COMPUTERS	3
CIS 150	INTRODUCTION TO COMPUTER LOGIC AND PROGRAMMING	3
CIS 199	NETWORK COMMUNICATIONS	3
CIS 268	SOFTWARE SUPPORT	3
CIS 269	HARDWARE SUPPORT	3
CIS 171	LINUX I	3
CIS 211	PRINCIPLES OF INFORMATION ASSURANCE	3
CIS 214	SECURITY ANALYSIS (PEN TESTING)	3
CIS 246	ETHICAL HACKING	3
CIS 276	SERVER ADMINISTRATION	3
CIS 280	NETWORK SECURITY	3
CIS 282	COMPUTER FORENSICS	3

CIS Electives

Choose from:

Item #	Title	Credits
CIS 172	LINUX II	3
CIS 270	CISCO CCNA I	3
CIS 271	CISCO CCNA II	3
CIS 296	SPECIAL TOPICS	3
Total Credits		63

Associate in Applied Science, Computer Information Systems - Data Center Option

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Computer Information Systems Program will be able to:

- The student will demonstrate knowledge of computer terminology and components. (CIS 199)
- The student will install, configure, and upgrade a computer operating system. (CIS 268)
- The student will install and troubleshoot computer hardware. (CIS 269)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (40 Credits)

Item #	Title	Credits
CIS 149	INTRODUCTION TO COMPUTERS	3
CIS 150	INTRODUCTION TO COMPUTER LOGIC AND PROGRAMMING	3
CIS 199	NETWORK COMMUNICATIONS	3
CIS 268	SOFTWARE SUPPORT	3
CIS 269	HARDWARE SUPPORT	3
CIS 171	LINUX I	3
CIS 276	SERVER ADMINISTRATION	3
CIS 280	NETWORK SECURITY	3

Python, Visual Basic, or C++

Programming

Choose from:

Item #	Title	Credits
CIS 202	PYTHON PROGRAMMING	3
CIS 212	VISUAL BASIC PROGRAMMING	3
CIS 251	C++ PROGRAMMING	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

Google IT I - V, Advanced Networking, Linux II, Network Cable – Fiber Optic, or Workplace Skills

Choose from:

Item #	Title	Credits
CIS 120	GOOGLE IT PROFESSIONAL SUPPORT I— TECHNICAL SUPPORT FUNDAMENTALS	2
CIS 121	GOOGLE IT PROFESSIONAL SUPPORT II— COMPUTER NETWORKING	2
CIS 122	GOOGLE IT PROFESSIONAL SUPPORT III— OPERATING SYSTEMS	2
CIS 123	GOOGLE IT PROFESSIONAL SUPPORT IV—SYSTEM ADMINISTRATION AND IT INFRASTRUCTURE	2
CIS 124	GOOGLE IT PROFESSIONAL SUPPORT V—IT SECURITY	2
CIS 162	ADVANCED NETWORKING	3
CIS 172	LINUX II	3
ILT 238	NETWORK CABLE - FIBER OPTIC	2
WKO 106	WORKPLACE SKILLS	3
Total Credits		61

Short-Term Certificate in Computer Information Systems - Computer Graphics & Web Design

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CIS 151	GRAPHICS FOR THE WORLD WIDE WEB	3
CIS 207	WEB DEVELOPMENT	3
CIS 208	WEB AUTHORIZING SOFTWARE	3
CIS 209	ADVANCED WEB DEVELOPMENT	3
CIS 199	NETWORK COMMUNICATIONS	3
	CIS Elective (3 Credits)	3
Total Credits		18

Short-Term Certificate in Computer Information Systems - Cybersecurity Technician

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
CIS 149	INTRODUCTION TO COMPUTERS	3
CIS 199	NETWORK COMMUNICATIONS	3
CIS 246	ETHICAL HACKING	3
CIS 268	SOFTWARE SUPPORT	3
CIS 269	HARDWARE SUPPORT	3
CIS 280	NETWORK SECURITY	3
CIS 282	COMPUTER FORENSICS	3
CIS 296	SPECIAL TOPICS	3
Total Credits		27

Short-Term Certificate in Computer Information Systems - Data Center Option

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CIS 199	NETWORK COMMUNICATIONS	3
CIS 268	SOFTWARE SUPPORT	3
CIS 269	HARDWARE SUPPORT	3

Network Cable - Fiber Optic, Google IT - Tech Supp Fund, or Server Administration

Choose from:

Item #	Title	Credits
ILT 238	NETWORK CABLE - FIBER OPTIC	2
CIS 120	GOOGLE IT PROFESSIONAL SUPPORT I— TECHNICAL SUPPORT FUNDAMENTALS	2
CIS 276	SERVER ADMINISTRATION	3
Total Credits		11

Short-Term Certificate in Computer Information Systems - Google IT Support Professional

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CIS 120	GOOGLE IT PROFESSIONAL SUPPORT I— TECHNICAL SUPPORT FUNDAMENTALS	2
CIS 121	GOOGLE IT PROFESSIONAL SUPPORT II— COMPUTER NETWORKING	2
CIS 122	GOOGLE IT PROFESSIONAL SUPPORT III— OPERATING SYSTEMS	2
CIS 123	GOOGLE IT PROFESSIONAL SUPPORT IV—SYSTEM ADMINISTRATION AND IT INFRASTRUCTURE	2
CIS 124	GOOGLE IT PROFESSIONAL SUPPORT V—IT SECURITY	2
Total Credits		10

Short-Term Certificate in Computer Information Systems - Office Technology Support

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CIS 149	INTRODUCTION TO COMPUTERS	3
CIS 146	COMPUTER APPLICATION	3
CIS 199	NETWORK COMMUNICATIONS	3
CIS 207	WEB DEVELOPMENT	3
CIS 268	SOFTWARE SUPPORT	3
CIS 269	HARDWARE SUPPORT	3
Total Credits		18

Short-Term Certificate in Computer Information Systems - Security + Add-On

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CIS 246	ETHICAL HACKING	3
CIS 280	NETWORK SECURITY	3
CIS 282	COMPUTER FORENSICS	3
CIS 296	SPECIAL TOPICS	3
Total Credits		12

Criminal Justice

Associate in Applied Science, Criminal Justice

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Criminal Justice Program will be able to:

- The student will function as a competent entry-level worker in a law enforcement agency demonstrating knowledge and skills retained from course work. (CRJ 280)
- The student will exhibit a thorough knowledge of the law enforcement agency. (CRJ 280)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, Elective Courses (42 Credits)

Item #	Title	Credits
CRJ 100	INTRODUCTION TO CRIMINAL JUSTICE	3
CRJ 110	INTRODUCTION TO LAW ENFORCEMENT	3
WKO 106	WORKPLACE SKILLS	3
CRJ 280	INTERNSHIP IN CRIMINAL JUSTICE	3

CRJ or Forensics Electives

Item #	Title	Credits
	CRJ or Forensics Electives (24 Credits)	24

Other Electives

Choose from:

Item #	Title	Credits
POL 211	AMERICAN NATIONAL GOVERNMENT	3
POL 220	STATE AND LOCAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3
BUS 215	BUSINESS COMMUNICATION	3
Total Credits		63

Certificate in Law Enforcement

Degree Type
Certificate

Success Guide

General Education Core

English Composition I

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CRJ 100	INTRODUCTION TO CRIMINAL JUSTICE	3
CRJ 110	INTRODUCTION TO LAW ENFORCEMENT	3
WKO 106	WORKPLACE SKILLS	3

Electives

Choose from:

Item #	Title	Credits
	CRJ Courses	
BUS 215	BUSINESS COMMUNICATION	3
CIS 282	COMPUTER FORENSICS	3
	Total Credits	42

Short-Term Certificate in Criminal Justice

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CRJ 100	INTRODUCTION TO CRIMINAL JUSTICE	3

Electives

Choose from:

Item #	Title	Credits
	CRJ Courses	
BUS 215	BUSINESS COMMUNICATION	3
CIS 280	NETWORK SECURITY	3
	Total Credits	15

Drafting and Design Technology

Associate in Applied Science, Drafting and Design Technology

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Drafting and Design Technology Program will be able to:

- Demonstrate correct use of precision measurement instruments. (ADM 101)
- Read and interpret technical drawings. (ADM 101)
- Sketch orthographic views of objects. (DDT 220)
- Employ basic operating system functions in order to use CADD software to produce and plot pictorial and multiview working drawings. (DDT 220)

Area I - Written Composition (3 Credits) Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (48 Credits)

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3
DDT 124	BASIC TECHNICAL DRAWING	3
DDT 220	ADVANCED TECHNICAL DRAWING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
WKO 106	WORKPLACE SKILLS	3

Technical Cooperative Education

Choose 3 from:

Item #	Title	Credits
ADM 150	TECHNICAL COOPERATIVE EDUCATION	1
ADM 151	TECHNICAL COOPERATIVE EDUCATION	1
ADM 152	TECHNICAL COOPERATIVE EDUCATION	1
ADM 153	TECHNICAL COOPERATIVE EDUCATION	1
ADM 154	TECHNICAL COOPERATIVE EDUCATION	1

Design Innovation or Manufacturing Projects

Choose from:

Item #	Title	Credits
ADM 114	DESIGN INNOVATION	3
ADM 155	MANUFACTURING PROJECTS	3

Basic Computer-Aided Drafting & Design or CAD Concepts

Choose from:

Item #	Title	Credits
DDT 104	BASIC COMPUTER AIDED DRAFTING AND DESIGN	3
ADM 107	CAD CONCEPTS	3

Manufacturing Processes or Blueprint Reading

Choose from:

Item #	Title	Credits
DDT 117	MANUFACTURING PROCESSES	3
ADM 110	BLUEPRINT READING	3

Basic 3D Modeling or Intro to 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3

Structural Steel Drafting or Geometric Dimensioning & Tolerancing

Choose from:

Item #	Title	Credits
DDT 225	STRUCTURAL STEEL DRAFTING	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

Design Project or Reverse Engineering

Choose from:

Item #	Title	Credits
DDT 236	DESIGN PROJECT	3
ADM 261	REVERSE ENGINEERING	3

WKO Elective

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3

3D Elective Sequence

Inventor or Solidworks

Item #	Title	Credits
MDT 147	INVENTOR CADD	3
MDT 187	ADVANCED INVENTOR CADD	3

-OR-

Item #	Title	Credits
MDT 202	SOLID WORKS CADD	3
MDT 252	ADVANCED SOLIDWORKS CADD	3
Total Credits		69

Suggested Career Pathway in Drafting & Design Technology

Degree Type

Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
DDT 104	BASIC COMPUTER AIDED DRAFTING AND DESIGN	3
CIS 146	COMPUTER APPLICATION	3
MTH 116	MATHEMATICAL APPLICATIONS	3

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3

**Eligible for a certification in NCCER or MSSC, AUTOCAD Certified User Credential, NC3 – PMI Certification*

Semester 2

Item #	Title	Credits
DDT 124	BASIC TECHNICAL DRAWING	3
DDT 144	BASIC 3D MODELING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3

Choose from:

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3

**Eligible for a Short-Term Certificate in CADD, NC3 Dremel 3D Printing Certification*

Semester 3

Item #	Title	Credits
DDT 220	ADVANCED TECHNICAL DRAWING	3
DDT 117	MANUFACTURING PROCESSES	3
ADM 155	MANUFACTURING PROJECTS	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Choose from:

Item #	Title	Credits
MDT 147	INVENTOR CADD	3
MDT 202	SOLID WORKS CADD	3

**Eligible for 3D Modeling Short-Term Certificate; Additive Manufacturing Short-Term Certificate and Certificate; Eligible for CADD Certificate, NC3 Dremel Laser Cutting Certification*

Semester 4

Item #	Title	Credits
DDT 225	STRUCTURAL STEEL DRAFTING	3
WKO 106	WORKPLACE SKILLS	3
	Math, Science, or Computer Science Elective	3
	Social and Behavioral Science Elective	3

Choose from:

Item #	Title	Credits
MDT 187	ADVANCED INVENTOR CADD	3
MDT 252	ADVANCED SOLIDWORKS CADD	3

**Eligible for Technical Drawing Short-Term Certificate and Certificate; 3D Modeling Certificate, Inventor Certified User, Certified SolidWorks Associate*

Semester 5

Item #	Title	Credits
DDT 236	DESIGN PROJECT	3
	Humanities and Fine Arts Elective	3

Choose from:

Item #	Title	Credits
ADM 150	TECHNICAL COOPERATIVE EDUCATION	1
ADM 151	TECHNICAL COOPERATIVE EDUCATION	1
ADM 152	TECHNICAL COOPERATIVE EDUCATION	1
ADM 153	TECHNICAL COOPERATIVE EDUCATION	1
ADM 154	TECHNICAL COOPERATIVE EDUCATION	1

Eligible for AAS degree in Drafting and Design Technology

Total Credits	69
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Certificate in Drafting and Design Technology - 3D Solid Modeling

Degree Type
Certificate

Success Guide**General Education Core**

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics**Choose from:**

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3

Design Innovation or Manufacturing Projects

Choose from:

Item #	Title	Credits
ADM 114	DESIGN INNOVATION	3
ADM 155	MANUFACTURING PROJECTS3	

Basic 3D Modeling or Intro to 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3

Inventor/Solidworks CADD

Choose from:

Item #	Title	Credits
MDT 147	INVENTOR CADD	3
MDT 202	SOLID WORKS CADD	3

Advanced Inventory/Solidworks CADD

Choose from:

Item #	Title	Credits
MDT 187	ADVANCED INVENTOR CADD	3
MDT 252	ADVANCED SOLIDWORKS CADD	3

WKO Elective

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANU FACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3
Total Credits		33

Certificate in Drafting and Design Technology - Additive Manufacturing

Degree Type
Certificate

Success Guide

General Education Core

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3

Design Innovation or Manufacturing Projects

Choose from:

Item #	Title	Credits
ADM 114	DESIGN INNOVATION	3
ADM 155	MANUFACTURING PROJECTS	3

Manufacturing Processes or Blueprint Reading

Choose from:

Item #	Title	Credits
DDT 117	MANUFACTURING PROCESSES	3
ADM 110	BLUEPRINT READING	3

Basic 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3

Inventor/Solidworks CADD

Choose from:

Item #	Title	Credits
MDT 147	INVENTOR CADD	3
MDT 202	SOLID WORKS CADD	3

WKO Elective

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3
Total Credits		36

Certificate in Drafting and Design Technology - CADD

Degree Type
Certificate

Success Guide

General Education Core

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
DDT 124	BASIC TECHNICAL DRAWING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3

Basic Computer-Aided Drafting & Design or CAD Concepts

Choose from:

Item #	Title	Credits
DDT 104	BASIC COMPUTER AIDED DRAFTING AND DESIGN	3
ADM 107	CAD CONCEPTS	3

Basic 3D Modeling or Intro to 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3

WKO Elective

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3
Total Credits		30

Certificate in Drafting and Design Technology - Technical Drawing

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
DDT 124	BASIC TECHNICAL DRAWING	3
DDT 220	ADVANCED TECHNICAL DRAWING	3

Basic Computer-Aided Drafting & Design or CAD Concepts

Choose from:

Item #	Title	Credits
DDT 104	BASIC COMPUTER AIDED DRAFTING AND DESIGN	3
ADM 107	CAD CONCEPTS	3

Basic 3D Modeling or Intro to 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3

Structural Steel Drafting or Geometric Dimensioning & Tolerancing

Choose from:

Item #	Title	Credits
DDT 225	STRUCTURAL STEEL DRAFTING	3
ADM 215	GEOMETRIC DIMENSIONING & TOLERANCING	3

WKO Elective

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3
Total Credits		33

Short-Term Certificate in Drafting and Design Technology - 3D Solid Modeling

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3

Design Innovation or Manufacturing Projects

Choose from:

Item #	Title	Credits
ADM 114	DESIGN INNOVATION	3
ADM 155	MANUFACTURING PROJECTS3	3

Basic 3D Modeling or Intro to 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3

Inventor/Solidworks CADD

Choose from:

Item #	Title	Credits
MDT 147	INVENTOR CADD	3
MDT 202	SOLID WORKS CADD	3
Total Credits		15

Short-Term Certificate in Drafting and Design Technology - Additive Manufacturing

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
ADM 160	ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES	3

Design Innovation or Manufacturing Projects

Choose from:

Item #	Title	Credits
ADM 114	DESIGN INNOVATION	3
ADM 155	MANUFACTURING PROJECTS3	3

Manufacturing Processes or Blueprint Reading

Choose from:

Item #	Title	Credits
DDT 117	MANUFACTURING PROCESSES	3
ADM 110	BLUEPRINT READING	3

Basic 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3

Inventor/Solidworks CADD

Choose from:

Item #	Title	Credits
MDT 147	INVENTOR CADD	3
MDT 202	SOLID WORKS CADD	3
Total Credits		21

Short-Term Certificate in Drafting and Design Technology - CADD

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
DDT 124	BASIC TECHNICAL DRAWING	3

Basic Computer-Aided Drafting & Design or CAD Concepts

Choose from:

Item #	Title	Credits
DDT 104	BASIC COMPUTER AIDED DRAFTING AND DESIGN	3
ADM 107	CAD CONCEPTS	3

Basic 3D Modeling or Intro to 3D Modeling

Choose from:

Item #	Title	Credits
DDT 144	BASIC 3D MODELING	3
ADM 108	INTRO TO 3D MODELING	3
Total Credits		12

Short-Term Certificate in Drafting and Design Technology - Technical Drawing

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ADM 101	PRECISION MEASUREMENT	3
DDT 104	BASIC COMPUTER AIDED DRAFTING AND DESIGN	3
DDT 124	BASIC TECHNICAL DRAWING	3
DDT 144	BASIC 3D MODELING	3
DDT 220	ADVANCED TECHNICAL DRAWING	3
DDT 225	STRUCTURAL STEEL DRAFTING	3
Total Credits		18

Emergency Medical Services

The Emergency Medical Services (EMS) Program, in accordance with the goals and mission of Northeast

Alabama Community College, is committed to providing quality education and preparation to those seeking education in Emergency Medical Services.

It is the goal of the EMS education program at NACC to prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Emergency Medical Services (EMS) personnel treat millions of patients annually in the United States. Many of these patients have complicated medical and/or trauma conditions. Paramedics are required to have considerable knowledge, skill, and judgment to treat patients in the out-of-hospital setting. High quality out-of-hospital emergency care is an important part of the United States health care system.

Based on the National EMS Scope of Practice model, the four levels of nationally recognized providers are Emergency Medical Responder (EMR), Emergency Medical Technician (EMT), Advanced Emergency Medical Technician (AEMT) and Paramedic.

Emergency Medical Responder (EMR) renders on-scene emergency care while awaiting additional EMS response. In many communities, EMRs provide care as first responders in the workplace and industry, fire responders and rescue organizations. EMR courses are organized on request. Upon successful course completion and certification by examination through the National Registry of EMTs, candidates may apply for licensure with the Alabama Department of Public Health, Office of EMS. EMR certification and licensure is not required to enter the EMS Program.

Those seeking to enter the EMS program of study have options of earning short term certificates at the EMT and Advanced EMT level, and a certificate at the Paramedic level or an Associate in Applied Science Degree-Emergency Medical Services.

The Emergency Medical Technician's (EMT) scope of practice includes basic, non-invasive interventions to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies. The Emergency Medical Technician level is the minimum licensure level for personnel transporting patients in ambulances.

The Advanced EMT (AEMT) scope of practice includes basic, limited advanced and pharmacological interventions to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies. A current Alabama EMT license is required to enter the AEMT program.

Paramedics are the most advanced level of EMS care providers licensed by the state of Alabama. The Paramedic's scope of practice includes basic and advanced life support education and skills focused on the acute management and transportation of the broad range of patients who access the emergency medical

system. A current EMT license is required for program admission along with specific academic prerequisite courses.

EMS Program Admission

Requirements:

- Unconditional admission to the College.
- Complete appropriate placement examinations.
- Schedule an advising appointment with an EMS advisor.
- Complete the EMS Program application (obtained at advisor meeting).
- Meet essential functions required for EMS (page 108-109).
- Meet pre-clinical requirements for EMS.
- Meet all additional requirements outlined in the EMS Program Handbook.

In addition to classroom and lab sessions, EMS students are required to complete course appropriate clinical activities at various healthcare and EMS organizations. Prior to clinical participation, students must meet specific agency requirements. These include a physical examination, documentation of vaccinations, satisfactory criminal background check, drug screen, orientation to policy and procedures for each agency, including appropriate dress, hygiene, patient confidentiality, and expectation of professional behaviors.

Successful program completion is met in each EMS course with a minimum letter grade of “B” and satisfactory lab and clinical competencies. A grade of less than a “B” in any EMS course is considered unsuccessful and will not result in certificate or AAS awards, unless retaken and completed with a grade of “B.”

Anticipated Additional EMS Program Costs

- Textbooks and learning resources
- Exam and licensure fees
- Professional Liability Insurance
- Clinical uniforms and supplies
- Transportation to and from clinical sites
- Physical Examination, vaccinations
- Drug Screen and Criminal Background Check
- Test Prep, Testing, and Competency Tracking Programs

The Emergency Medical Services (EMS) Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendations of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Emergency Medical Services Program Essential Functions

Students entering and participating in the EMS Program (primary training) must:

Physical Demands

1. have the physical ability necessary to walk, climb, crawl, bend, push, pull, and lift and balance over less than ideal terrain;
2. have good physical stamina and endurance which would not be adversely affected by having to lift, carry, and balance at times, in excess of 125 pounds (250 pounds with assistance);
3. see different color spectrums;
4. have good eye-hand coordination and manual dexterity to manipulate equipment, instrumentation, and medications;

Problem Solving Abilities

5. be able to send and receive verbal messages as well as operate communication equipment appropriately;
6. be able to collect facts to organize data accurately and communicate clearly, both orally and in writing, in the English language at the ninth grade level or higher;
7. be able to differentiate between normal and abnormal findings in human physical conditions using visual, auditory, olfactory, and tactile observations;
8. be able to make good judgment decisions and exhibit problem solving skills under stressful situations;
9. be attentive to detail and aware of standards and rules that govern practice;
10. implement therapies based on mathematical calculations;

Worker Characteristics

11. possess emotional stability to be able to perform duties in life-or-death situations and in potentially dangerous social situations, including responding to calls in districts known to have high crime rates;
12. be able to handle stress and work well as part of a team;
13. be oriented to reality and not be mentally impaired by mind altering substances;
14. not be addicted to drugs or alcohol;
15. be able to work shifts 24 hours in length, if necessary;
16. be able to tolerate being exposed to extremes in the environment including variable aspects of weather, hazardous fumes, and noise;
17. possess eyesight in a minimum of one eye correctable to 20/20 vision and be able to determine directions according to a map. Students who desire to drive an ambulance must possess approximately 180 degrees peripheral vision capacity, must possess a valid Alabama

driver's license, and must be able to safely and competently operate a motor vehicle in accordance with state law; and

18. have the ability to follow established criteria even in the absence of direct supervision.

Associate in Applied Science, Emergency Medical Services – Management

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Emergency Medical Services (Management) Program will be able to:

- Perform tasks in a safe manner. (EMS 119)
- Display a positive work ethic. (EMS 119)
- Make decisions based on available data. (EMS 234)

Area I - Written Composition (3 credits)

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

***Student is responsible for meeting with an advisor to select electives.*

Area IV - History, Social, & Behavioral Sciences (3 credits)

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (50 Credits)

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1

Medical Terminology

Choose from:

Item #	Title	Credits
EMS 106	MEDICAL TERMINOLOGY	2
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3
Item #	Title	Credits
EMS 107	EMERGENCY VEHICLE OPERATOR-AMBULANCE	1
EMS 108	DIRECTED STUDIES IN EMS I	1
EMS 113	INFECTION CONTROL FOR HEALTH PROFESSIONS	1
EMS 118	EMERGENCY MEDICAL TECHNICIAN	9
EMS 119	EMERGENCY MEDICAL TECHNICIAN CLINICAL	1
EMS 189	APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC	4

Decision Making & Problem Solving/Fire Officer IV

Choose from:

Item #	Title	Credits
EMS 234	DECISION MAKING AND PROBLEM SOLVING IN EMS	3
FSC 294	FIRE OFFICER IV	3
Item #	Title	Credits
EMS 267	INTERNATIONAL TRAUMA LIFE SUPPORT	1
FSC 161	HAZARDOUS MATERIALS AWARENESS AND OPERATIONS	3
FSC 201	FIRE INSTRUCTOR I	3
FSC 202	FIRE INSTRUCTOR II	3
FSC 291	FIRE OFFICER I	3
FSC 292	FIRE OFFICER II	3
	EMS, FSC, or HPS electives	11
Total Credits		68

Associate in Applied Science, Emergency Medical Services – Paramedic

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Emergency Medical Services (Paramedic) Program will be able to:

- Perform tasks in a safe manner. (EMS 255)
- Display a positive work ethic. (EMS 256)
- Function as a competent, entry-level paramedic. (EMS 254)
- Use current technology and develop computer skills for informational, academic, personal and professional needs. (EMS 255)

The Northeast Alabama Community College Emergency Medical Services Education Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.com) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Area I - Written Composition (3 credits)

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

***Student is responsible for meeting with an advisor to select electives.*

Area IV - History, Social, & Behavioral Sciences (3 credits)

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (50 Credits)

Item #	Title	Credits
EMS 118	EMERGENCY MEDICAL TECHNICIAN	9
EMS 119	EMERGENCY MEDICAL TECHNICIAN CLINICAL	1
EMS 189	APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC	4
EMS 240	PARAMEDIC OPERATIONS	2
EMS 241	PARAMEDIC CARDIOLOGY	3
EMS 242	PARAMEDIC PATIENT ASSESSMENT	2
EMS 243	PARAMEDIC PHARMACOLOGY	1
EMS 244	PARAMEDIC CLINICAL I	1
EMS 245	PARAMEDIC MEDICAL EMERGENCIES	3
EMS 246	PARAMEDIC TRAUMA MANAGEMENT	3
EMS 247	PARAMEDIC SPECIAL POPULATIONS	2
EMS 248	PARAMEDIC CLINICAL II	3
EMS 253	PARAMEDIC TRANSITION TO THE WORKFORCE	2
EMS 254	ADVANCED COMPETENCIES FOR PARAMEDIC	2
EMS 255	PARAMEDIC FIELD PRECEPTORSHIP	5
EMS 256	PARAMEDIC TEAM LEADERSHIP	1
EMS 257	PARAMEDIC APPLIED PHARMACOLOGY	2
	Elective (EMS - Paramedic)	1
	Total Credits	65

Associate in Applied Science,
Emergency Medical Services – Rescue
Technology

Degree Type
A.A.S.

Student Learning Outcomes

Technology) Program will be able to:

- Perform tasks in a safe manner. (EMS 119)
- Display a positive work ethic. (EMS 119)
- Make decisions based on available data. (EMS 234)

Area I - Written Composition (3 credits)

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

***Student is responsible for meeting with an advisor to select electives.*

Area IV - History, Social, & Behavioral Sciences (3 credits)

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (50 Credits)

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1

Medical Terminology

Choose from:

Item #	Title	Credits
EMS 106	MEDICAL TERMINOLOGY	2
HPS 105	MEDICAL TERMINOLOGY	3
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

Emergency Vehicle Operator – Ambulance

Choose from:

Item #	Title	Credits
EMS 107	EMERGENCY VEHICLE OPERATOR-AMBULANCE	1
FSC 281	FIRE APPARATUS OPERATOR: PUMPER	3

Item #	Title	Credits
EMS 108	DIRECTED STUDIES IN EMS I	1
EMS 113	INFECTION CONTROL FOR HEALTH PROFESSIONS	1
EMS 118	EMERGENCY MEDICAL TECHNICIAN	9
EMS 119	EMERGENCY MEDICAL TECHNICIAN CLINICAL	1

Vehicle Extrication

Choose from:

Item #	Title	Credits
EMS 120	VEHICLE EXTRICATION	2
FSC 237	RESCUE TECHNICIAN: VEHICLE AND MACHINERY EXTRICATION	3

High Angle Rescue – I

Choose from:

Item #	Title	Credits
EMS 125	HIGH ANGLE RESCUE I	2
FSC 230	RESCUE TECHNICIAN: ROPE	3

Item #	Title	Credits
EMS 155	ADVANCED EMERGENCY MEDICAL TECHNICIAN	7
EMS 156	ADVANCED EMERGENCY MEDICAL TECHNICIAN CLINICAL	2
EMS 189	APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC	4
EMS 234	DECISION MAKING AND PROBLEM SOLVING IN EMS	3
FSC 161	HAZARDOUS MATERIALS AWARENESS AND OPERATIONS	3
FSC 231	RESCUE TECHNICIAN: CONFINED SPACE	3
FSC 232	RESCUE TECHNICIAN: TRENCH	3
	EMS, FSC, or HPS electives	1
	Total Credits	64

Suggested Career Pathway in Emergency Medical Services – Paramedic

Degree Type
Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Choose from:

Item #	Title	Credits
EMS 106	MEDICAL TERMINOLOGY	2
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3
Item #	Title	Credits
EMS 118	EMERGENCY MEDICAL TECHNICIAN	9
EMS 119	EMERGENCY MEDICAL TECHNICIAN CLINICAL	1

**Eligible for a Short-Term Certificate in Emergency Medical Services-EMT and to sit for NREMT EMT Certification*

Semester 2

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 102	ENGLISH COMPOSITION II	3

Choose from:

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
EMS 189	APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC	4
Item #	Title	Credits
	MTH 116 or any 100-level MTH	3
	Area II Humanities and Fine Arts	3
	Elective	

**EMS 189 can substitute for BIO 201 and BIO 202*

Semester 3

Item #	Title	Credits
EMS 240	PARAMEDIC OPERATIONS	2
EMS 241	PARAMEDIC CARDIOLOGY	3
EMS 242	PARAMEDIC PATIENT ASSESSMENT	2
EMS 257	PARAMEDIC APPLIED PHARMACOLOGY	2
EMS 243	PARAMEDIC PHARMACOLOGY	1
EMS 244	PARAMEDIC CLINICAL I	1
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4

BIO 202 Human Anatomy and Physiology II: (if EMS 189 not taken).

Semester 4

Item #	Title	Credits
EMS 245	PARAMEDIC MEDICAL EMERGENCIES	3
EMS 246	PARAMEDIC TRAUMA MANAGEMENT	3
EMS 247	PARAMEDIC SPECIAL POPULATIONS	2
EMS 248	PARAMEDIC CLINICAL II	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Semester 5

Item #	Title	Credits
EMS 253	PARAMEDIC TRANSITION TO THE WORKFORCE	2
EMS 254	ADVANCED COMPETENCIES FOR PARAMEDIC	2
EMS 255	PARAMEDIC FIELD PRECEPTORSHIP	5
EMS 256	PARAMEDIC TEAM LEADERSHIP	1
	Area IV History, Social, and Behavioral Science	3

**Eligible for certifications in: Advanced Cardiac Life Support, Pediatric Advanced Life Support, Pre-Hospital Trauma Life Support, Advanced Medical Life Support, Emergency Pediatric Care and The Difficult Airway Course EMS*

**Eligible to sit for NREMT Paramedic Certification*

Total Credits 67

Advanced EMT (AEMT) Short-Term Certificate

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
EMS 155	ADVANCED EMERGENCY MEDICAL TECHNICIAN	7
EMS 156	ADVANCED EMERGENCY MEDICAL TECHNICIAN CLINICAL	2
Total Credits		9

Emergency Medical Services – Rescue Technology Certificate

Degree Type
Certificate

Success Guide

General Education Core Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1

Medical Terminology

Choose from:

Item #	Title	Credits
EMS 106	MEDICAL TERMINOLOGY	2
HPS 105	MEDICAL TERMINOLOGY	3
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

Directed Studies in EMS I

Item #	Title	Credits
EMS 108	DIRECTED STUDIES IN EMS I	1

Infection Control for Health Professions

Item #	Title	Credits
EMS 113	INFECTION CONTROL FOR HEALTH PROFESSIONS	1

Vehicle Extrication

Choose from:

Item #	Title	Credits
EMS 120	VEHICLE EXTRICATION	2
FSC 237	RESCUE TECHNICIAN: VEHICLE AND MACHINERY EXTRICATION	3

High Angle Rescue – I

Choose from:

Item #	Title	Credits
EMS 125	HIGH ANGLE RESCUE I	2
FSC 230	RESCUE TECHNICIAN: ROPE	3

Rescue Technician Confined Space

Item #	Title	Credits
FSC 231	RESCUE TECHNICIAN: CONFINED SPACE	3

Rescue Technician Trench

Item #	Title	Credits
FSC 232	RESCUE TECHNICIAN: TRENCH	3

Hazardous Materials

Item #	Title	Credits
FSC 161	HAZARDOUS MATERIALS AWARENESS AND OPERATIONS	3

Applied Anatomy & Physiology

Item #	Title	Credits
EMS 189	APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC	4

Decision Making & Problem Solving

Item #	Title	Credits
EMS 234	DECISION MAKING AND PROBLEM SOLVING IN EMS	3
Total Credits		31

Emergency Medical Technician (EMT) Short-Term Certificate

Degree Type

Certificate

[Success Guide](#)

Area V - Pre-Professional, Major, & Elective Courses

Medical Terminology

Choose from:

Item #	Title	Credits
EMS 106	MEDICAL TERMINOLOGY	2
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3
HPS 105	MEDICAL TERMINOLOGY	3

Emergency Medical Technician

Item #	Title	Credits
EMS 118	EMERGENCY MEDICAL TECHNICIAN	9

Emergency Medical Technician Clinical

Item #	Title	Credits
EMS 119	EMERGENCY MEDICAL TECHNICIAN CLINICAL	1
Total Credits		12

Paramedic Certificate

Degree Type

Certificate

[Success Guide](#)

General Education Core

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
EMS 189	APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC	4
EMS 240	PARAMEDIC OPERATIONS	2
EMS 241	PARAMEDIC CARDIOLOGY	3
EMS 242	PARAMEDIC PATIENT ASSESSMENT	2
EMS 257	PARAMEDIC APPLIED PHARMACOLOGY	2
EMS 243	PARAMEDIC PHARMACOLOGY	1
EMS 244	PARAMEDIC CLINICAL I	1
EMS 245	PARAMEDIC MEDICAL EMERGENCIES	3
EMS 246	PARAMEDIC TRAUMA MANAGEMENT	3
EMS 247	PARAMEDIC SPECIAL POPULATIONS	2
EMS 248	PARAMEDIC CLINICAL II	3
EMS 253	PARAMEDIC TRANSITION TO THE WORKFORCE	2
EMS 254	ADVANCED COMPETENCIES FOR PARAMEDIC	2
EMS 255	PARAMEDIC FIELD PRECEPTORSHIP	5
EMS 256	PARAMEDIC TEAM LEADERSHIP	1
Total Credits		42

Engineering

Associate in Applied Science,
Engineering Technology

Degree Type
A.A.S.

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities and Fine Arts (6 Credits)

Item #	Title	Credits
Speech Elective Group (ENT)		3
Fine Arts Elective Group (AAS)		3

Area III - Natural Sciences & Mathematics (10 Credits)

Item #	Title	Credits
Computer Science Requirement 3 Elective Group (ENT)		3
Mathematics Elective Group (ENT)		3
Technical Physics or Numerically Higher Elective Group (ENT)		4

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
History, Social, & Behavioral Sciences Elective Group (AAS)		3

Area V - Pre-Professional, Major, & Elective Courses (51 Credits)

Item #	Title	Credits
ENT 106	PRINCIPLES OF ENGINEERING TECHNOLOGY	3
ENT 140	APPLIED STATICS	3
ENT 221	INDUSTRIAL QUALITY AND PRODUCTIVITY	3
ENT 222	INTRODUCTION TO PROJECT 3 MANAGEMENT	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
INT 119	PRINCIPLES OF MECHANICAL 3 MEASUREMENT AND TECHNICAL DRAWING	3
ENT 223	MATERIALS SELECTION	3
WKO 106	WORKPLACE SKILLS	3
WKO Elective Group (ENT)		3
Technical Cooperative Education		3

Solid Modeling Elective Sequence

Item #	Title	Credits
ADM 108	INTRO TO 3D MODELING	3
3D Modeling Sequence Elective 3 Group (ENT)		

Advisor Approved Electives

Item #	Title	Credits
	Advisor Approved Elective Group (ENT-AAS)	12

Can choose one course maximum from [MDT 187](#), [MDT 252](#); [ADM 114](#); [ADM 261](#)

Total Credits	73
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Suggested Career Pathway in Engineering Technician

Degree Type
Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
EGR 101	ENGINEERING FOUNDATIONS	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3
MTH 112	PRECALCULUS ALGEBRA	3
CIS 146	COMPUTER APPLICATION	3
WKO 131	MSSC SAFETY COURSE	3

**MSSC Safety Certification

Semester 2

Item #	Title	Credits
ENT 106	PRINCIPLES OF ENGINEERING TECHNOLOGY	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
DDT 144	BASIC 3D MODELING	3

*ETA DC EM1 Exam and ETA DC EM2 Exam Eligible for STC in ENT

Semester 3

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
Elective Mech/Elec/Indus Emphasis Elective		
	MDT XXX Solid Modeling II	3
Area IV History, Social and Behavioral Science		

Semester 4

Item #	Title	Credits
ENT 140	APPLIED STATICS	3
ENT 222	INTRODUCTION TO PROJECT MANAGEMENT	3
Elective Mech/Elec/Indus Emphasis Elective		
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Eligible for CER in ENT

Semester 5

Item #	Title	Credits
Area II Humanities and Fine Arts 3 Elective		
WKO 106	WORKPLACE SKILLS	3
ENT 221	INDUSTRIAL QUALITY AND PRODUCTIVITY	3
Elective Mech/Elec/Indus Emphasis Elective		
Elective Mech/Elec/Indus Emphasis Elective		

*Eligible for OSHA 10-Hour Card

Semester 6

Choose from:

Item #	Title	Credits
ADM 150	TECHNICAL COOPERATIVE EDUCATION	1
ADM 151	TECHNICAL COOPERATIVE EDUCATION	1
ADM 152	TECHNICAL COOPERATIVE EDUCATION	1
ADM 153	TECHNICAL COOPERATIVE EDUCATION	1
ADM 154	TECHNICAL COOPERATIVE EDUCATION	1

Eligible for NOCTI Certification

Eligible for AAS degree in Engineering Technology

Total Credits	76
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Certificate in Engineering Technician

Degree Type
Certificate

Area I - Written Composition

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities and Fine Arts

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Area III - Natural Sciences &

Mathematics

Item #	Title	Credits
	Mathematics Elective Group (ENT)	3
	Computer Science Requirement Elective Group (ENT)	3
	Technical Physics or Numerically Higher Elective Group (ENT)	4

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 131	MSSC SAFETY COURSE	3
ENT 106	PRINCIPLES OF ENGINEERING TECHNOLOGY	3
ENT 140	APPLIED STATICS	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
	Advisor Approved Elective Group (ENT-CER)	6
Total Credits		40

Short-Term Certificate in Engineering Technician

Degree Type
Certificate

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ENT 106	PRINCIPLES OF ENGINEERING TECHNOLOGY	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
	Advisor Approved Elective Groups (ENT-STC)	12
Total Credits		24

General

Short-Term Certificate in General Education

Degree Type
Certificate

Success Guide

General Education Courses

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3
ENG 102	ENGLISH COMPOSITION II	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Natural Sciences & Mathematics

Choose from:

Item #	Title	Credits
AST 220	INTRODUCTION TO ASTRONOMY	4
BIO 103	PRINCIPLES OF BIOLOGY I	4
BIO 104	PRINCIPLES OF BIOLOGY II	4
CHM 104	INTRODUCTION TO CHEMISTRY I	4
CHM 105	INTRODUCTION TO CHEMISTRY II	4
CHM 111	COLLEGE CHEMISTRY I	4
CHM 112	COLLEGE CHEMISTRY II	4
PHS 111	PHYSICAL SCIENCE I	4
PHS 112	PHYSICAL SCIENCE II	4
PHY 120	INTRODUCTION TO PHYSICS	4
PHY 201	GENERAL PHYSICS I -TRIG BASED	4
PHY 202	GENERAL PHYSICS II-TRIG BASED	4
PHY 213	GENERAL PHYSICS WITH CALCULUS I	4
PHY 214	GENERAL PHYSICS WITH CALCULUS II	4
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3
Item #	Title	Credits
	Area V Electives	1
	Total Credits	22

Industrial Systems Technology

Associate in Applied Science, Industrial Systems Technology - Electrical & Instrumentation

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Industrial Systems Technology Program (Electrical and Instrumentation Option) will be able to:

- Function as a competent entry-level industrial maintenance technician by demonstrating knowledge and skills retained from coursework (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 Credits)

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (48 Credits)

Technical Core

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
	Technical Cooperative Education	3
WKO 106	WORKPLACE SKILLS	3
	WKO Elective	3

Other Courses

Item #	Title	Credits
ILT 108	INTRODUCTION TO INSTRUMENTATION AND PROCESS CONTROL	3
ILT 118	CONSTRUCTION WIRING NEC	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 162	SOLID STATE FUNDAMENTALS	3
ILT 163	DIGITAL FUNDAMENTALS	3
ILT 166	MOTORS AND TRANSFORMERS I	3
ILT 194	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3
ILT 197	MOTOR CONTROLS I	3
ILT 231	NATIONAL ELECTRIC CODE	3
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3

Program Advisor-Approved Elective

Choose from:

Item #	Title	Credits
	INT Courses	3
	ILT Courses	3
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
	Total Credits	69

Associate in Applied Science, Industrial Systems Technology - Machine Tool Technology

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Industrial Systems Technology Program (Machine Tool Technology Option) will be able to:

- Function as a competent entry-level machinist by demonstrating knowledge and skills retained from coursework (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 Credits)

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (45 Credits)

Technical Core

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
	Technical Cooperative Education	3
WKO 106	WORKPLACE SKILLS	3
	WKO Elective	3

Other Courses:

Item #	Title	Credits
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
	MTT Electives	27
	Total Credits	66

Associate in Applied Science, Industrial Systems Technology - Mechanical Maintenance

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Industrial Systems Technology Program (Industrial Maintenance Option) will be able to:

- Function as a competent entry-level Industrial Maintenance Technician by demonstrating knowledge and skills retained from course work. (ADM 150-154)
- Perform tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 Credits)

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (51 Credits)

Technical Core

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
	Technical Cooperative Education	3
WKO 106	WORKPLACE SKILLS	3
	WKO Elective	3

Other Courses

Item #	Title	Credits
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
INT 126	PREVENTIVE MAINTENANCE	3
INT 127	PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS	3
MTT 147	INTRODUCTION TO MACHINE SHOP I	3
MTT 148	INTRODUCTION TO MACHINE SHOP I LAB	3
MTT 149	INTRODUCTION TO MACHINE SHOP II	3
MTT 150	INTRODUCTION TO MACHINE SHOP II LAB	3
WDT 108	SMAW FILLET/OFC	3
WDT 122	SMAW FILLET/OFC LAB	3
WDT 217	SMAW CARBON PIPE	3
WDT 257	SMAW CARBON PIPE LAB	3
WDT 115	GTAW CARBON PIPE	3
WDT 155	GTAW CARBON PIPE LAB	3
	Total Credits	72

Associate in Applied Science, Industrial Systems Technology - Multi-Skilled Maintenance Technician

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Industrial Systems Technology Program (Multi-Skilled Option) will be able to:

- Function as a competent entry-level industrial maintenance technician by demonstrating knowledge and skills retained from coursework (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 Credits)
Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (48 Credits)

Technical Core

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
	Technical Cooperative Education	3
WKO 106	WORKPLACE SKILLS	3
	WKO Elective	3

Other Courses

Item #	Title	Credits
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
INT 126	PREVENTIVE MAINTENANCE	3
INT 127	PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS	3
INT 134	PRINCIPLES OF INDUSTRIAL MAINTENANCE WELDING AND METAL CUTTING TECHNIQUES	3
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 195	TROUBLESHOOTING TECHNIQUES I	3
ILT 197	MOTOR CONTROLS I	3
ILT 231	NATIONAL ELECTRIC CODE	3

Program Advisor-Approved Electives

Choose from:

Item #	Title	Credits
	INT Courses	3
	ILT Courses	3
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
	Total Credits	69

Suggested Career Pathway in Industrial Systems Technology – Machine Tool Technology

Degree Type

Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
MTT 147	INTRODUCTION TO MACHINE SHOP I	3
MTT 148	INTRODUCTION TO MACHINE SHOP I LAB	3
CIS 146	COMPUTER APPLICATION	3
	Area IV History, Social and Behavioral Science	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3

**Eligible for NIMS MMSI Certification*

Semester 2

Item #	Title	Credits
MTT 141	BASIC COMPUTER NUMERICAL CONTROL MILLING PROGRAMMING I	3
MTT 241	CNC MILLING LAB I	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

**Eligible for a Short-Term Certificate in Machine Tool Technology and a NIMS CNC Mill Operator Certification*

Semester 3

Item #	Title	Credits
MTT 149	INTRODUCTION TO MACHINE SHOP II	3
MTT 150	INTRODUCTION TO MACHINE SHOP II LAB	3
	WKO Elective	3

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
	MTH 116 or any 100-level MTH	3

**Eligible for a NIMS Drill Press AND/OR Job Planning, Bench Work, Layout Certification and for a certification in NCCER or MSSC*

Semester 4

Item #	Title	Credits
MTT 140	BASIC COMPUTER NUMERICAL CONTROL TURNING PROGRAMMING I	3
MTT 243	CNC TURNING LAB I	3
	Area III Math or Science or Computer Science Elective	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3
WKO 106	WORKPLACE SKILLS	3

**Eligible for a Certificate in Industrial Systems Technology – MTT, National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 5

Item #	Title	Credits
MTT 213	ADVANCED COMPUTER NUMERICAL CONTROL MILLING	3
MTT 242	CNC MILLING LAB II	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
	Cooperative Education Electives3	
	Area II Humanities and Fine Arts 3 Elective	

**Eligible for NIMS CNC Milling Certification*

Eligible for AAS degree in Industrial Systems Technology – Machine Tool Technology

Total Credits	69
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Suggested Career Pathway in Industrial Systems Technology Electrical and Instrumentation Option

Degree Type

Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
	Area V Program Advisor Approved Elective	3

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANU FACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3

**Eligible for ETA EM1 and EM2 Certification and for a certification in NCCER or MSSC*

Semester 2

Item #	Title	Credits
ILT 197	MOTOR CONTROLS I	3
ILT 162	SOLID STATE FUNDAMENTALS	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
	MTH 116 or any 100-level MTH	3

**Eligible for Short-Term Certificate in Industrial Systems Technology – Electrical and Instrumentation*

Semester 3

Item #	Title	Credits
ILT 163	DIGITAL FUNDAMENTALS	3
ILT 166	MOTORS AND TRANSFORMERS I	3
ILT 194	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3
ILT 118	CONSTRUCTION WIRING NEC3	

**Eligible for ETA Digital EM4 Certification*

Semester 4

Item #	Title	Credits
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
ILT 231	NATIONAL ELECTRIC CODE	3
CIS 146	COMPUTER APPLICATION	3
	Area III Math or Science or Computer Science Elective	3
WKO 106	WORKPLACE SKILLS	3

**Eligible for a Certificate in Industrial Systems Technology – ISI, National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 5

Item #	Title	Credits
ILT 108	INTRODUCTION TO INSTRUMENTATION AND PROCESS CONTROL	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
	Area IV History, Social and Behavioral Science	3
	Cooperative Education Electives	3
	Area II Humanities and Fine Arts Elective	3

Eligible for AAS degree in Industrial Systems Technology – Electrical and Instrumentation

Total Credits 69

Suggested Career Pathway in Industrial Systems Technology Mechanical Maintenance Technician Option

Degree Type
Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
MTT 147	INTRODUCTION TO MACHINE SHOP I	3
MTT 148	INTRODUCTION TO MACHINE SHOP I LAB	3
CIS 146	COMPUTER APPLICATION	3

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3

**Eligible for a certification in NCCER or MSSC and a NIMS MMSI Certification*

Semester 2

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
MTT 149	INTRODUCTION TO MACHINE SHOP II	3
MTT 150	INTRODUCTION TO MACHINE SHOP II LAB	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
	MTH 116 or any 100-level MTH	3

**Eligible for Short-Term Certificate in Industrial Systems Technology – Mechanical Maintenance and a NIMS Drill Press AND/OR Job Planning, Bench Work, Layout Certification*

Semester 3

Item #	Title	Credits
INT 126	PREVENTIVE MAINTENANCE	3
ILT 118	CONSTRUCTION WIRING NEC	3
WDT 108	SMAW FILLET/OFC	3
WDT 122	SMAW FILLET/OFC LAB	3

**Eligible for a AWS or NCCER Welding Certification*

Semester 4

Item #	Title	Credits
WDT 217	SMAW CARBON PIPE	3
WDT 257	SMAW CARBON PIPE LAB	3
WDT 115	GTAW CARBON PIPE	3
WDT 115	GTAW CARBON PIPE	3
	Area III Math or Science or Computer Science Elective	3

**Eligible for a Certificate in Industrial Systems Technology – IMM and a AWS or NCCER Welding Certification*

Semester 5

Item #	Title	Credits
INT 127	PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS	3
WKO 106	WORKPLACE SKILLS	3
	Area IV History, Social and Behavioral Science	3
	Cooperative Education Electives	3
	Area II Humanities and Fine Arts Elective	3

**Eligible for a National Career Readiness Certificate and OSHA 10 Hour Card*

Eligible for AAS degree in Industrial Systems Technology – Mechanical Maintenance Option

Total Credits 72

Suggested Career Pathway in Industrial Systems Technology Multi-Skilled Maintenance Technician Option

Degree Type
Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
CIS 146	COMPUTER APPLICATION	3

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3

**Eligible for ETA EM1 and EM2 Certification and for a certification in NCCER or MSSC*

Semester 2

Item #	Title	Credits
	Area V Program Advisor Approved Elective	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Choose from:

Item #	Title	Credits
MTH 110	FINITE MATHEMATICS	3
	MTH 116 or any 100-level MTH	3

**Eligible for Short-Term Certificate in Industrial Systems Technology – Multi-Skilled Technician*

Semester 3

Item #	Title	Credits
INT 126	PREVENTIVE MAINTENANCE	3
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
ILT 197	MOTOR CONTROLS I	3
ILT 118	CONSTRUCTION WIRING NEC3	3

Semester 4

Item #	Title	Credits
ILT 195	TROUBLESHOOTING TECHNIQUES I	3
ILT 231	NATIONAL ELECTRIC CODE	3
	Area V Program Advisor Approved Elective	3
	Area III Math or Science or Computer Science Elective	3
WKO 106	WORKPLACE SKILLS	3

**Eligible for a Certificate in Industrial Systems Technology – ISS, National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 5

Item #	Title	Credits
INT 127	PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS	3
INT 134	PRINCIPLES OF INDUSTRIAL MAINTENANCE WELDING AND METAL CUTTING TECHNIQUES	3
	Area IV History, Social and Behavioral Science	3
	Cooperative Education Electives	3
	Area II Humanities and Fine Arts Elective	3
Total Credits		69

Eligible for AAS degree in Industrial Systems Technology – Multi-Skilled Technician Option

Suggested Career Pathway in Industrial Systems Technology Welding Option

Degree Type
Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
WDT 157	CONSUMABLE WELDING PROCESSES	3
WDT 158	CONSUMABLE WELDING PROCESSES LABS	3
CIS 146	COMPUTER APPLICATION	3
	Area II Humanities and Fine Arts Elective	3
WKO 110	NCCER CORE	3

**Eligible for NCCER Certification and AWS Standards-Welder Qualification Test Record (WQTR)*

Semester 2

Item #	Title	Credits
WDT 119	GAS METAL ARC/FLUX CORED ARC WELDING	3
WDT 124	GAS METAL ARC/FLUX CORED ARC WELDING LAB	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

**Eligible for a Short-Term Certification in Welding Technology and AWS Standards WQTR*

Semester 3

Item #	Title	Credits
WDT 109	SMAW FILLET/PAC/CAC	3
WDT 123	SMAW FILLET/PAC/CAC LAB	3
	MTH 116 or any 100-level MTH	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3

**Eligible for AWS Standards WQTR*

Semester 4

Item #	Title	Credits
WDT 228	GAS TUNGSTEN ARC WELDING	3
WDT 268	GAS TUNGSTEN ARC LAB	3
	Area III Math or Science or Computer Science Elective	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3
WKO 106	WORKPLACE SKILLS	3

**Eligible for a Certificate in Industrial Systems Technology-WDT, National Career Readiness Certificate and OSHA 10 Hour Card, AWS Standards WQTR*

Semester 5

Item #	Title	Credits
WDT 180	SPECIAL TOPICS	3
WDT 181	SPECIAL TOPICS LAB	3
	Area IV History, Social, and Behavioral Science	3
	Cooperative Education Electives	3

Eligible for AAS degree in Industrial Systems Technology – Welding Option, AWS Standards WQTR

Total Credits 66

Certificate in Industrial Systems Technology - Electrical & Instrumentation

Degree Type
Certificate

Success Guide

General Education Core

Vocational Technical English or English

Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
ILT 231	NATIONAL ELECTRIC CODE	3
ILT 118	CONSTRUCTION WIRING NEC3	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 194	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3

Program Advisor-Approved Electives

Choose from:

Item #	Title	Credits
	ILT Courses	3
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
	Total Credits	48

Certificate in Industrial Systems

Technology - Machine Tool Technology

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &

Elective Courses

Item #	Title	Credits
	MTT or CNC Coures	12
	Total Credits	12

Certificate in Industrial Systems

Technology - Machine Tool Technology

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or English

Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3
WKO 106	WORKPLACE SKILLS	3
	WKO Elective	3
MTT 218	COMPUTER INTEGRATED MANUFACTURING (CIM)	3
	MTT Electives (21 Credits)	21
	Total Credits	48

Certificate in Industrial Systems

Technology - Mechanical Maintenance

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or English

Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

CIS Elective

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
INT 126	PREVENTIVE MAINTENANCE	3
WKO 106	WORKPLACE SKILLS	3
	WKO Elective	3

Mechanical Maintenance Electives by Advisement

Choose from:

Item #	Title	Credits
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
INT 127	PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS	3
MTT 147	INTRODUCTION TO MACHINE SHOP I	3
MTT 148	INTRODUCTION TO MACHINE SHOP I LAB	3
MTT 149	INTRODUCTION TO MACHINE SHOP II	3
MTT 150	INTRODUCTION TO MACHINE SHOP II LAB	3
WDT 108	SMAW FILLET/OFC	3
WDT 115	GTAW CARBON PIPE	3
WDT 122	SMAW FILLET/OFC LAB	3
WDT 155	GTAW CARBON PIPE LAB	3
WDT 217	SMAW CARBON PIPE	3
WDT 257	SMAW CARBON PIPE LAB	3
Total Credits		48

Certificate in Industrial Systems Technology - Multi-Skilled Maintenance Technician

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
ILT 231	NATIONAL ELECTRIC CODE	3
ILT 118	CONSTRUCTION WIRING NEC	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 195	TROUBLESHOOTING TECHNIQUES I	3
ILT 197	MOTOR CONTROLS I	3

Mechanical Maintenance Electives by Advisement

Choose from:

Item #	Title	Credits
	INT Courses	3
	ILT Courses	3
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
	Total Credits	51

Short-Term Certificate in Industrial Systems Technology - Electrical & Instrumentation

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 162	SOLID STATE FUNDAMENTALS	3
ILT 197	MOTOR CONTROLS I	3

Advisor-Approved Courses

Choose from:

Item #	Title	Credits
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
	ILT Courses	3
	Total Credits	15

Short-Term Certificate in Industrial Systems Technology - Mechanical Maintenance

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
INT 118	FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
INT 126	PREVENTIVE MAINTENANCE	3
INT 127	PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS	3
Total Credits		12

Machine Tool Technology

Short-Term Certificate in Machine Tool Technology - Stamping and Forming

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
CNC 158	DIE FUNDAMENTALS	3
CNC 160	DIE CONSTRUCTION AND TRYOUT	3
CNC 161	DIE MAINTENANCE AND REPAIR	3
CNC 232	BASIC TOOL AND DIE	4
Total Credits		13

Mechatronics

Associate in Applied Science, Mechatronics

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Mechatronics Program will be able to:

- Function as a competent entry-level industrial electrician (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 Credits)

Vocational Technical English or English Composition

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (49 Credits)

Item #	Title	Credits
ILT 108	INTRODUCTION TO INSTRUMENTATION AND PROCESS CONTROL	3
ILT 109	ELECTRICAL BLUEPRINT READING I	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 162	SOLID STATE FUNDAMENTALS	3
ILT 163	DIGITAL FUNDAMENTALS	3
ILT 166	MOTORS AND TRANSFORMERS I	3
ILT 194	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3
ILT 195	TROUBLESHOOTING TECHNIQUES I	3
ILT 197	MOTOR CONTROLS I	3
ILT 276	ELEMENTS OF INDUSTRIAL CONTROL II	3
ILT 277	ELEMENTS OF INDUSTRIAL CONTROL II LAB	2
WKO 106	WORKPLACE SKILLS	3
	WKO Elective	3
	Technical Cooperative Education	3

ILT Electives

Choose from:

Item #	Title	Credits
	INT Courses	3
	ILT Courses	3
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
	Total Credits	70

Suggested Career Pathway in Mechatronics

Degree Type

Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 109	ELECTRICAL BLUEPRINT READING I	3

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Choose from:

Item #	Title	Credits
WKO 110	NCCER CORE	3
WKO 131	MSSC SAFETY COURSE	3
WKO 132	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WKO 133	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WKO 134	MSSC MAINTENANCE AWARENESS	3

**Eligible for ETA EM1 and EM2 Certification and for a certification in NCCER or MSSC*

Semester 2

Item #	Title	Credits
ILT 197	MOTOR CONTROLS I	3
ILT 162	SOLID STATE FUNDAMENTALS	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3
CIS 146	COMPUTER APPLICATION	3

**Eligible for ETA Analog EM3 Certification and a Short-Term Certificate in Industrial Electronics Technology*

Semester 3

Item #	Title	Credits
ILT 163	DIGITAL FUNDAMENTALS	3
ILT 166	MOTORS AND TRANSFORMERS I	3
ILT 194	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3
	MTH Requirement	3
	Area III Math or Science or Computer Science Elective	3

Semester 4

Item #	Title	Credits
ILT 195	TROUBLESHOOTING TECHNIQUES I	3
ILT 276	ELEMENTS OF INDUSTRIAL CONTROL II	3
ILT 277	ELEMENTS OF INDUSTRIAL CONTROL II LAB	2
	Area IV History, Social and Behavioral Science	3
WKO 106	WORKPLACE SKILLS	3

**Eligible for a Certificate in Industrial Electronics Technology, National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 5

Item #	Title	Credits
ILT 216	INDUSTRIAL ROBOTICS	3
ILT 217	INDUSTRIAL ROBOTICS LAB	2
ILT 108	INTRODUCTION TO INSTRUMENTATION AND PROCESS CONTROL	3
	Cooperative Education Electives3	
	Area II Humanities and Fine Arts 3 Elective	

Eligible for AAS degree in Industrial Electronics Technology

Total Credits 70

Certificate in Mechatronics - Industrial Control Technician

Degree Type
Certificate

Success Guide**General Education Core****Vocational Technical English or English Composition I****Choose from:**

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking**Choose from:**

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ILT 109	ELECTRICAL BLUEPRINT READING I	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 162	SOLID STATE FUNDAMENTALS	3
ILT 163	DIGITAL FUNDAMENTALS	3
ILT 166	MOTORS AND TRANSFORMERS I	3
ILT 194	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3
ILT 197	MOTOR CONTROLS I	3
WKO 106	WORKPLACE SKILLS	3
Total Credits		39

Short-Term Certificate in Mechatronics - Basic Electrical

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 118	CONSTRUCTION WIRING NEC3	3
ILT 231	NATIONAL ELECTRIC CODE	3
Total Credits		12

Short-Term Certificate in Mechatronics - General

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT/INT Electives (9 Credits)		9
Total Credits		15

Short-Term Certificate in Mechatronics - Industrial Electrical Technician

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
ILT 109	ELECTRICAL BLUEPRINT READING I	3
ILT 160	DC FUNDAMENTALS	3
ILT 161	AC FUNDAMENTALS	3
ILT 162	SOLID STATE FUNDAMENTALS	3
ILT 163	DIGITAL FUNDAMENTALS	3
ILT 166	MOTORS AND TRANSFORMERS I	3
ILT 194	INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS	3
ILT 197	MOTOR CONTROLS I	3
Total Credits		24

Medical Assisting Technology

Associate in Applied Science, Medical Assisting Technology

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Medical Assisting Technology Program will be able to:

- Function as a competent entry-level medical assistant by performing clinical and administrative duties. (MAT 229)
- Perform tasks in a safe manner. (MAT 229)
- Exhibit a positive work ethic. (MAT 229)

Success Guide

Area I - Written Composition (3 Credits)

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (10 Credits)

Biology

Item #	Title	Credits
BIO 103	PRINCIPLES OF BIOLOGY I	4

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Psychology

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3

Area V - Pre-Professional, Major, & Elective Courses (50 Credits)

Item #	Title	Credits
MAT 111	CLINICAL PROCEDURES I FOR THE MEDICAL ASSISTANT	3
MAT 120	MEDICAL ADMINISTRATIVE PROCEDURES I	3
MAT 121	MEDICAL ADMINISTRATIVE PROCEDURES II	3
MAT 125	LABORATORY PROCEDURES 3 I FOR THE MEDICAL ASSISTANT	3
MAT 200	MANAGEMENT OF OFFICE EMERGENCIES	2
MAT 211	CLINICAL PROCEDURES II FOR THE MEDICAL ASSISTANT	3
MAT 215	LABORATORY PROCEDURES 3 II FOR THE MEDICAL ASSISTANT	3
MAT 216	MEDICAL PHARMACOLOGY FOR THE MEDICAL OFFICE	4
MAT 229	MEDICAL ASSISTING PRACTICUM	3
WKO 106	WORKPLACE SKILLS	3

Medical Terminology

Choose from:

Item #	Title	Credits
HPS 105	MEDICAL TERMINOLOGY	3
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

Medical Assisting Theory I

Choose from:

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
MAT 102	MEDICAL ASSISTING THEORY 3 I	3

Medical Assisting Theory II

Choose from:

Item #	Title	Credits
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
MAT 103	MEDICAL ASSISTING THEORY 3 II	3

Electives

Choose from:

Item #	Title	Credits
HIT 116	PHARMACOLOGY FOR HIT	2
HIT 230	MEDICAL CODING SYSTEMS I	3
HIT 232	MEDICAL CODING SYSTEMS II	3
HIT 283	MEDICAL CODING PROFESSIONAL PRACTICE	2
MAT 128	MEDICAL LAW AND ETHICS FOR THE MEDICAL ASSISTANT	3
MAT 218	EKG TECHNICIAN	3
MAT 220	MEDICAL OFFICE INSURANCE	3
MAT 228	MEDICAL ASSISTANT REVIEW 1 COURSE	1
MAT 239	PHLEBOTOMY PRECEPTORSHIP	3

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
Total Credits		72

Short-Term Certificate in Medical Assisting Technology - EKG Technician

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
MAT 111	CLINICAL PROCEDURES I FOR THE MEDICAL ASSISTANT	3
MAT 218	EKG TECHNICIAN	3

Medical Terminology

Choose from:

Item #	Title	Credits
HPS 105	MEDICAL TERMINOLOGY	3
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

Medical Assisting Theory I

Choose from:

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
MAT 102	MEDICAL ASSISTING THEORY 3 I	3

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
Total Credits		13

Short-Term Certificate in Medical Assisting Technology - General

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
MAT 111	CLINICAL PROCEDURES I FOR THE MEDICAL ASSISTANT	3
MAT 120	MEDICAL ADMINISTRATIVE PROCEDURES I	3
MAT 121	MEDICAL ADMINISTRATIVE PROCEDURES II	3
WKO 106	WORKPLACE SKILLS	3

Medical Terminology

Choose from:

Item #	Title	Credits
HPS 105	MEDICAL TERMINOLOGY	3
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

Medical Assisting Theory I

Choose from:

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
MAT 102	MEDICAL ASSISTING THEORY I	3

Medical Assisting Theory II

Choose from:

Item #	Title	Credits
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
MAT 103	MEDICAL ASSISTING THEORY II	3
Total Credits		21

Short-Term Certificate in Medical Assisting Technology - Medical Coding

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
HIT 230	MEDICAL CODING SYSTEMS I	3
HIT 232	MEDICAL CODING SYSTEMS II	3
MAT 220	MEDICAL OFFICE INSURANCE	3
HIT 283	MEDICAL CODING PROFESSIONAL PRACTICE	2

Medical Terminology

Choose from:

Item #	Title	Credits
HPS 105	MEDICAL TERMINOLOGY	3
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

Medical Assisting Theory I

Choose from:

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
MAT 102	MEDICAL ASSISTING THEORY I	3

Medical Assisting Theory II

Choose from:

Item #	Title	Credits
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
MAT 103	MEDICAL ASSISTING THEORY II	3

Microcomputer Applications

Choose from:

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
OAD 125	WORD PROCESSING	3

Pharmacology

Choose from:

Item #	Title	Credits
HIT 116	PHARMACOLOGY FOR HIT	2
MAT 216	MEDICAL PHARMACOLOGY FOR THE MEDICAL OFFICE	4
Total Credits		25

Short-Term Certificate in Medical
Assisting Technology - Patient Care
Technician

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
MAT 215	LABORATORY PROCEDURES 3 II FOR THE MEDICAL ASSISTANT	3
MAT 218	EKG TECHNICIAN	3

Medical Terminology

Choose from:

Item #	Title	Credits
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3
HPS 105	MEDICAL TERMINOLOGY	3

Medical Assisting Theory

Choose from:

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
MAT 102	MEDICAL ASSISTING THEORY3 I	
MAT 103	MEDICAL ASSISTING THEORY3 II	

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
Total Credits		13

Short-Term Certificate in Medical
Assisting Technology - Phlebotomist

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
MAT 125	LABORATORY PROCEDURES 3 I FOR THE MEDICAL ASSISTANT	3
MAT 215	LABORATORY PROCEDURES 3 II FOR THE MEDICAL ASSISTANT	3
MAT 239	PHLEBOTOMY PRECEPTORSHIP	3

Cardiopulmonary Resuscitation

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
Total Credits		10

Nursing

**Associate in Applied Science Degree –
5 Semesters/Two Academic Years**

**Practical Nursing Certificate –
3 Semesters/One Academic Year**

The nursing program is an integral part of Northeast Alabama Community College and accepts the mission statement and the goals of Northeast Alabama Community College. The nursing curriculum combines general education and nursing education courses. The Associate in Applied Science Degree is awarded by Northeast to the student who successfully completes all requirements of the nursing program. Students in the program are eligible after successful completion of the first three semesters for the Practical Nursing certificate.

The graduate of the associate degree program is eligible to apply to the State Board of Nursing to take the National Council Licensure Examination (NCLEX-RN) leading to licensure as a registered nurse. The review of the application by the State Board of Nursing determines eligibility of the applicant to take the licensure examination.

Completers of the practical nursing program are awarded a certificate and are eligible to apply to the State Board of Nursing to take the National Council Licensure Examination (NCLEXPN) leading to licensure as a practical nurse. The review of the application by the State Board of Nursing determines eligibility of the applicant to take the licensure examination.

Legal requirements for licensure in the State of Alabama are listed in the **Alabama Board of Nursing Administrative Code**. The applicant for licensure examination should be aware that eligibility for initial and continuing licensure in Alabama includes questions concerning such matters as convictions of criminal offenses, convictions for driving under the influence of drugs/alcohol, treatment for mental illness, treatment for chemical dependency, disciplinary action by a state board of nursing, placed on a state/federal abuse registry, or court-martialed, disciplined, or administratively discharged by the military. The application to take the licensure examination may be denied by the State Board of Nursing if all the requirements as listed in the **Alabama Board of Nursing Administrative Code** are not met by the applicant. Although these policies refer specifically to Alabama, other states have similar stipulations regarding licensure. Individuals must meet the following criteria for initial licensure as a nurse.

1. Complete all requirements for graduation from an approved nursing program.
2. Receive approval by the State Board of Nursing to take the National Council Licensure Examination (NCLEX).
3. Achieve a passing score on the National Council Licensure Examination (NCLEX).

Accreditation Status

Approved by Alabama Community College System Board of Trustees
 Approved by Alabama Board of Nursing
 Accredited by the Accreditation Commission for Education in Nursing (ACEN)

Admission Requirements

1. Unconditional admission to the College. In order to be unconditionally admitted, the Admissions Office must receive official transcripts of all attempted college work.
2. Complete application to the Nursing Program by the published deadline. It is the student's responsibility to verify all required documentation has been received by the published deadline.
3. A minimum of 2.5 grade point average (GPA) for nursing required core academic courses.
4. Minimum 2.5 cumulative GPA at current institution (which includes all course work completed) and/or cumulative 2.5 GPA at institution from which student is transferring.
5. A minimum of 2.5 grade point average (GPA) cumulative high school for students without prior college courses (GED will be used if applicable).
6. A minimum of 18 ACT composite score.
7. Eligibility for ENG 101, BIO 201, and MTH 100 as determined by college policy.
8. Good standing with the college.
9. Must meet **ESSENTIAL FUNCTIONS/ELIGIBILITY CRITERIA** for nursing.

Admission to the nursing program is competitive and the number of students accepted is limited by the number of faculty and clinical facilities available.
Meeting minimal requirements does not guarantee acceptance.

Should the student decline acceptance or be denied admission based on qualifications, he/she must re-submit an application by published deadline of the following academic year. It is the student's responsibility to adhere to the admission requirements described and verify all required documentation has been received by published deadline. **Students should contact a nursing advisor for clarification, if needed.**

IT IS THE RESPONSIBILITY OF THE STUDENT TO KEEP THE NURSING APPLICATION UPDATED. APPLICANTS ARE ENCOURAGED TO VERIFY COMPLETION OF PROFILE PRIOR TO THE FILING DEADLINE.

Nursing Program Selection Criteria

After meeting all minimum requirements, applicants are ranked based upon a point awarded system as follows:

Calculation of Points for Ranking	MIN	MAX
1. Minimum ACT Composite 18		
<ul style="list-style-type: none"> • Composite scores below 18 will render applicant ineligible • We accept the highest ACT composite score on file • No time limit on ACT score 	18	36
Points for Grades on Core Academic Courses:		
<ul style="list-style-type: none"> • ENG 101, MTH 100, BIO 100, BIO 201, BIO 202 	0	12
3. Additional 10 points based on NACC policy:		
A. GPA as calculated on Core Academic Courses (Up to 4.0 points)	2.5	4
B. All General Education Courses Completed:		
<ul style="list-style-type: none"> • (ENG 101, MTH 100, BIO 201, BIO 202, PSY 200, PSY 210, SPH 106/107, BIO 220, Humanities Elective – ART, MUS, PHL, THR, Ethics, or foreign language) • No partial points awarded 	0	1
C. Current CNA Certification (SSN Required to verify)	0	2
D. First time nursing student	0	1
E. Attended NACC's Pre-nursing Seminar within 12 months of application	0	1
F. NACC Loyalty Points	0	1
TOTAL POINTS	20.5	58

Additional Criteria:

- Student must have a minimum GPA of 2.5 on Core Academic Courses.
- All Core Academic Courses DO NOT have to be complete for program eligibility.
- Core Academic Course GPA is calculated on courses taken or accepted in transfer and appearing on your NACC transcript. GPA may be calculated on <4 of these courses.

- If you have not taken any of these Core Academic Courses, your high school GPA is used. Cumulative High School GPA must be minimum of 2.5 for students without prior college courses (GED will be used if applicable).
- Cumulative GPA must be 2.5 at NACC and all previous transferring institutions. This includes all course work completed.
- Must be unconditionally admitted to NACC. In order to be unconditionally admitted, the Admissions Office must receive official transcripts on ALL attempted college work.
- Must have a minimum of 18 ACT composite score.
- Must meet the Essential Functions/Eligibility Criteria for nursing as determined by Healthcare Provider.
- If not already completed, student must be eligible to take ENG 101, BIO 201, and MTH 100 the first semester accepted into the nursing program.

Program Requirements:

1. The student must comply with legal, moral, and legislative standards in accordance with the Alabama Board of Nursing Administrative Code.
2. The student is required to follow Federal HIPAA regulations regarding client confidentiality and privacy. Student must respect the client's right to privacy by protecting confidential information unless obligated to disclose in a court of law under proper authorization or legal compulsion (Alabama Board of Nursing Administrative Code). **Students may be recommended for dismissal from the nursing program for failing to comply with this requirement.**
3. The student must follow the testing policy which is available in the course syllabi and the Nursing Student Handbook.
4. The student may be recommended for dismissal from the nursing program when not adhering to the policies and procedures of the facility to which they are assigned, Quality Safety Education Standards for nurses, or the program standards for client safety.
5. A rating of unsatisfactory in clinical performance will result in a grade of "F" for that course regardless of any other grading component in the course.
6. The student who has been determined to be UNSATISFACTORY in providing **safe effective client care** in the clinical area may not be allowed readmission or reinstatement into the nursing program.
7. The student is expected to be academically honest. Any student found guilty of cheating may be recommended for dismissal from the program with a grade of "F."
8. The student will have professional liability insurance throughout the nursing program. Fees are included in tuition.
9. The student must show documentation of current cardiopulmonary resuscitation (CPR) certification at the healthcare provider level prior to placement in a clinical agency.
10. The student is required to obtain a health evaluation by a qualified health practitioner on the form provided by the nursing department. **(MUST BE UPLOADED TO THE ONLINE CREDENTIALING SERVICE BY THE PROVIDED DEADLINE.)**
11. The student is required to obtain an evaluation of the Essential Functions/Eligibility Criteria as determined by a qualified health practitioner on forms provided by the nursing program. The evaluation must be submitted to the online credentialing service by the provided deadline. Additional health examinations may be required depending on physical or psychological alterations which may occur during the program of study.
12. The student is highly encouraged to receive a series of three Hepatitis B vaccines, obtain a Positive titer or sign a declination policy provided by the nursing department.
13. **The student is required to submit to a pre-clinical drug screen at a time designated by the nursing faculty.** Failure to comply with this requirement may result in a recommendation for dismissal from the program. Random drug screens may be required should the student exhibit behaviors indicative of substance abuse during a clinical experience or during on campus clinical lab. Admission drug screen and annual drug screen fees are included in tuition. Any additional drug screen is performed at the student's expense. A positive drug screen will prohibit the student from completing the clinical requirements of the nursing curriculum and the student will be recommended for withdrawal from the nursing program and/or referred to the Dean of Student Services for the disciplinary process. A student with a prior positive drug screen may apply for readmission or reinstatement to the nursing program with provided evidence of completion of an approved treatment program. (See Nursing Student Handbook for detailed policy).
14. The student is required to submit to a criminal background check prior to placement in a clinical facility, which is required by clinical agencies. Students who have a positive background check will not be allowed to complete the clinical component of the nursing course and would be recommended for withdrawal from the nursing program.
15. The student must be registered prior to attending class. Children are not allowed in the classroom, clinical lab or computer lab at any time.
16. The student is required to participate in testing programs and remediation included throughout the nursing curriculum.

Course Grade:

A course grade will be determined based on theory and clinical performance. **Students must achieve a grade of “75%” or above in each required nursing course to continue in the nursing program. A grade below “75%” will result in a “D” or an “F” depending on the numerical score.**

Grading Scale:

90 – 100	= A
80 – 89	= B
75 – 79	= C
60 – 74	= D
59 and below	= F

Attendance Policy for Nursing Students:

Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from the class before poor attendance interferes with the student's ability to achieve the objectives required in the course.

Theory/Clinical/Laboratory

See Nursing Student Handbook for detailed attendance policies.

Responsibility to Agencies

All students are assigned to various health care agencies for clinical experiences. Students must follow the policies and procedures of the health care agencies and must be acceptable to those agencies. The student is responsible for complying with the policies and procedures required by the agencies which provide for the safety and welfare of the clients. Failure, by the student, to meet this requirement will mean the student is excluded from a required clinical experience. The student may be recommended for withdrawal from the nursing program and/or will result in a formal complaint being filed against the student with the Dean of Student Services. (See Nursing Student Handbook for detailed policies).

Student Organizations and Activities:

Students enrolled in the nursing program participate in campus organizations as well as social, cultural and college activities the same as other college students. In addition to the regular activities at the College, students in nursing may belong to the National Student Nurses' Association.

Additional Expenses:

These expenses are approximate and in no way reflect expenses each individual student may incur during the program. This list is not all inclusive.

- Uniforms, lab coat, stethoscope, and blood pressure cuff, etc. (Approx. \$350)
- Professional liability insurance (\$20 each Fall semester)
- Textbooks and other resources (Approx. \$1,000 semester one & approx. \$500 semester two)
- Miscellaneous books and other resources (Approx. \$500)
- Laboratory packet (Approx. \$65 each semester)
- Evaluation of Essential Functions/Eligibility Criteria, Physical & Health Questionnaire by Healthcare Provider (Approx. \$200)
- Online credentialing service (Includes Credentialing & Criminal Background Check) (Approx. \$45)
- Required (immunizations or titers, approx. \$200-\$350)
- Drug Screening Tests (\$35 each Fall semester)
- Testing and learning resource fees (Approx. \$400 per semester)
- Transportation to and from clinical agencies

Additional expenses anticipated during the final semester of the nursing program are approximate. They are as follows:

NCLEX Application and Licensure	\$350.00
NCLEX Review Course	\$400.00
Graduation Fee	58.00
Nursing Pin (Optional)	55.00

Progression Policy for the Nursing Program

In order to continue in the nursing program, the student must meet the following criteria:

1. Maintain a grade of “C” or better in all required general education and nursing courses.
2. Unless completed previously, students must complete all required general education courses according to The Alabama Community College System Nursing Education curriculum.
3. Be acceptable by clinical agencies for clinical experience.
4. Maintain ability to meet Essential Functions/Eligibility Criteria for nursing with or without reasonable accommodations.
5. Maintain program health requirements.
6. Maintain current CPR course completion at the Healthcare Provider Level.
7. Students with an unsuccessful attempt in a nursing course (W, D, or F) cannot progress until the course is repeated successfully. Course repetition will be based on instructor availability and program resources.

Non Progression:

1. A total of two unsuccessful attempts in two separate semesters (D, F, or W) in the nursing

- program will require the student, who is eligible to return, to apply for admission to the nursing program.
2. Students who have a withdrawal or failure in a nursing course and are eligible to return to that course will be considered for reinstatement to the program.
 3. A student may be reinstated to the nursing program only one time. Reinstatement must be within one year from the semester of non-progression. Reinstatement is not guaranteed due to limitations in clinical spaces. All nursing program admission standards must be met.
 4. A student must have a 2.5 cumulative GPA at the current institution for reinstatement.
 5. If a student has a documented extenuating circumstance that should be considered related to a withdrawal or failure, this student may request a hearing before the Nursing Admissions Committee or other appropriate college committees for a decision on repeating a course (reinstatement) or readmission to the program.

Reinstatement:

In order to be reinstated, a student must:

1. Schedule an appointment with a nursing faculty/ advisor to discuss eligibility for reinstatement.
2. Apply for readmission to the College if not currently enrolled. College readmission must be accomplished by published deadlines.
3. Apply for reinstatement to the nursing program by the end of the semester following the term of withdrawal or failure in the nursing program.
4. Demonstrate competency in all previous nursing courses successfully completed with validation of clinical nursing skills and/or written/computerized exams.
5. Student must have a 2.5 cumulative GPA at the current institution for reinstatement.
6. Meet acceptable criteria for placement at all clinical agencies for clinical experiences.
7. Adhere to nursing curriculum or program policies and procedures in effect at the time of reinstatement.
8. Update immunizations, demonstrate current, accepted CPR course completion at the Healthcare Provider Level, background check, and drug screening according to program policy.
9. Reinstatement to the nursing program is not guaranteed. Reinstatement may be denied. Possible reasons for denial include, but are not limited to, the following:
 - a. Grade Point Average (GPA) is less than 2.5 from courses completed at current institution.
 - b. Refusal by clinical agencies to accept the student for clinical experiences.
 - c. Over twelve (12) months have elapsed since the student was enrolled in a nursing course.
 - d. Failure to demonstrate competency in all previous nursing courses successfully completed.

- e. Space unavailability in a course in which the student wishes to be reinstated.
 - f. Previous disciplinary actions related to unsafe client care and/or unprofessional/unethical behavior
10. Dismissal from the previous program for disciplinary reasons and/or unsafe and or unsatisfactory client care in the clinical area may prohibit reinstatement or admission back into the nursing program.
 11. Additional requirements for remediation or satisfactory completion of a student success seminar may be required by the nursing program.

Readmission:

Students not eligible for program reinstatement may apply for program admission as a new student and must submit all application criteria. If accepted as a new student, the student must take or retake all nursing program courses. Students who are not in good standing, such as those who withdrew or were recommended for dismissal for disciplinary reasons and/or unsafe client care may not be eligible for readmission. Students must adhere to the nursing curriculum and program policies and procedures in effect at the time of readmission.

Transfer Policy:

The transfer policy applies only to students desiring to transfer between Alabama Community College System institutions. It does not apply to students wishing to transfer from other institutions.

1. Must meet minimum admission standards for the nursing program.
2. Must possess a grade of "C" or better in all required nursing program courses taken at another institution and possess a minimum of a 2.5 cumulative GPA at time of transfer.
3. Minimum 2.5 cumulative GPA at current institution (which includes all course work completed) and/or cumulative 2.5 GPA at institution from which student is transferring.
4. Dean/Director of previous nursing program must provide a letter of eligibility/letter of good standing for progression in previous nursing program.
5. Must comply with all program policy requirements at accepting institution.
6. Complete at least 25% of the nursing program required courses for degree/certificate at the accepting institution.
7. Must meet acceptability criteria for placement at clinical agencies for clinical experience.
8. Acceptance of transfer students into nursing programs is limited by the number of faculty and clinical facilities available. Meeting minimal requirements does not guarantee acceptance.

NACC Nursing Program Essential Functions/Eligibility Criteria

The Alabama Community College System endorses the Americans' with Disabilities Act. In accordance with College policy, when requested, reasonable accommodations may be provided for individuals with disabilities.

The essential functions/eligibility criteria delineated below are necessary for nursing program admission, progression, and graduation and for the provision of safe and effective nursing care. The essential functions/eligibility criteria include but are not limited to the ability to:

1. **Sensory Perception**
 - a. **Visual**
 - i. Observe and discern subtle changes in physical conditions and the environment
 - ii. Differentiate color spectrums and color changes
 - iii. Read fine print in varying levels of light
 - iv. Read for prolonged periods of time
 - v. Read cursive writing
 - vi. Read at varying distances
 - vii. Read data/information displayed on monitors/ equipment
 - b. **Auditory**
 - i. Interpret monitoring devices
 - ii. Distinguish muffled sounds heard through a stethoscope
 - iii. Discriminate high and low frequency sounds produced by the body and the environment
 - iv. Effectively communicate with others
 - c. **Tactile**
 - i. Discern tremors, vibrations, pulses, textures,
 - ii. temperature, shapes, size, location and other physical characteristics
 - d. **Olfactory**
 - i. Detect body odors and odors in the environment
2. **Communication/ Interpersonal Relationships**
 - a. Effectively engage in writing, and other methods, in two-way communication and interact effectively with others, from a variety of social, emotional, cultural, and intellectual backgrounds
 - b. Work effectively in groups
 - c. Work effectively independently
 - d. Discern and interpret nonverbal communication
 - e. Express one's ideas and feelings clearly
 - f. Communicate with others accurately in a timely manner
 - g. Obtain communication information from a computer
3. **Cognitive/Critical Thinking**
 - a. Effectively read, write, and comprehend the English language or as translated
 - b. Consistently and dependably engage in the process of critical thinking in order to formulate and implement safe and ethical nursing decisions in a variety of health care settings
- c. Demonstrate satisfactory performance on written examinations including mathematical computations without a calculator
- d. Satisfactorily achieve the program objectives
4. **Motor Function**
 - a. Handle or manipulate small delicate equipment/objects without extraneous movement, contamination, or destruction
 - b. Move, position, turn, transfer, or assist with lifting or lift and carry clients without injury to clients, self, or others
 - c. Maintain balance from any position
 - d. Maneuver in small/tight spaces
 - e. Push/pull or move heavy objects without injury to client, self, or others
 - f. Ability to work in a clinical setting performing physical activities requiring energy without jeopardizing the safety of the client, self, or others
 - g. Move without difficulty while safely delivering services
 - h. Flex, abduct and rotate all joints freely
 - i. Respond rapidly to emergency situations
 - j. Perform daily care functions for the client
 - k. Coordinate fine and gross motor hand movements to provide safe effective nursing care
 - l. Calibrate/use equipment
 - m. Execute movement required to provide nursing care in all health care settings
 - n. Perform CPR and physical assessment
 - o. Operate a computer
5. **Professional Behavior**
 - a. Convey caring, respect, sensitivity, tact, compassion, empathy, tolerance and a healthy attitude toward others
 - b. Demonstrate a mentally healthy attitude that is age appropriate in relationship to the client
 - c. Handle multiple tasks concurrently
 - d. Perform safe, effective nursing care for clients in a caring context
 - e. Understand and follow the policies and procedures of the College and clinical agencies
 - f. Understand the consequences of violating the student code of conduct
 - g. Perform all duties safely and understand one is subject to discipline for willful violation of safety standards
 - h. Meet qualifications for licensure by examination as stipulated by the Alabama Board of Nursing
 - i. Pose no direct threat to self or others
 - j. Function effectively in situations of uncertainty and stress inherent in providing nursing care
 - k. Adapt to changing environments and situations
 - l. Remain free of chemical dependency
 - m. Report promptly to clinicals and remain for 6-12 hour on the clinical unit

- n. Provide timely nursing care
 - o. Accept responsibility, accountability, and ownership of one's actions
 - p. Seek supervision/consultation in a timely manner
 - q. Examine and modify one's own behavior when it interferes with nursing care or learning
- Functions

Student Statement

- Student signature required on official document.

Medical Verification

- Validation required on official document by MD/DO/PA/CRNP.

Associate in Applied Science, Nursing Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Nursing Program will be able to:

- Advocate for clients and families in ways that promote their self-determination, integrity and ongoing growth as human beings. (NUR 221)
- Recognize the client or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for client's preferences, values and needs. (NUR 221)
- Make judgments in practice, substantiated with evidence, that integrate nursing science in the provision of safe, quality care and promote the health of clients within a family and community context. (NUR 221)
- Use information and technology to communicate, manage knowledge, mitigate error, and support decision making. (NUR 221)
- Minimize risk of harm to clients and providers through both system effectiveness and individual performance. (NUR 221)
- Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy, and safe, quality care for diverse clients within a family and community context. (NUR 221)
- Function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality client care. (NUR 221)
- Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve the quality of care for clients, families and communities. (NUR 221)
- Use data to monitor the outcomes of care processes and use improvement methods to

design and test changes to continuously improve the quality and safety of health care systems. (NUR 221)

- Integrate best evidence-based practice with clinical expertise, client/family preferences, and values for delivery of optimal health care. (NUR 221)

Success Guide

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
ENG 251	AMERICAN LITERATURE I	3
ENG 252	AMERICAN LITERATURE II	3
ENG 261	ENGLISH LITERATURE I	3
ENG 262	ENGLISH LITERATURE II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (15 Credits)

Mathematics

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4

Natural Sciences

Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
BIO 220	GENERAL MICROBIOLOGY	4

Area IV - History, Social, & Behavioral Sciences (6 Credits)

Item #	Title	Credits
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3

Area V - Pre-Professional, Major, & Elective Courses (39 Credits)

Item #	Title	Credits
NUR 112	FUNDAMENTAL CONCEPTS OF NURSING	7
NUR 113	NURSING CONCEPTS I	8
NUR 114	NURSING CONCEPTS II	8
NUR 115	EVIDENCE BASED CLINICAL REASONING	2
NUR 211	ADVANCED NURSING CONCEPTS	7
NUR 221	ADVANCED EVIDENCE BASED CLINICAL REASONING	7
Total Credits		69

Nursing Curriculum Plan

Degree Type

Career Pathway

Fall Semester

Item #	Title	Credits
NUR 112	FUNDAMENTAL CONCEPTS OF NURSING	7
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3

Spring Semester

Item #	Title	Credits
NUR 113	NURSING CONCEPTS I	8
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
ENG 101	ENGLISH COMPOSITION	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3

Summer Semester

Item #	Title	Credits
NUR 114	NURSING CONCEPTS II	8
NUR 115	EVIDENCE BASED CLINICAL REASONING	2
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

STUDENTS COMPLETING NUR 112, NUR 113, NUR 114, NUR 115, AND REQUIRED ACADEMIC COURSES WILL BE AWARDED THE PRACTICAL NURSING CERTIFICATE.

Fall Semester

Item #	Title	Credits
NUR 211	ADVANCED NURSING CONCEPTS	7
BIO 220	GENERAL MICROBIOLOGY	4
PSY 200	GENERAL PSYCHOLOGY	3

Spring Semester

Item #	Title	Credits
NUR 221	ADVANCED EVIDENCE BASED CLINICAL REASONING	7
	Humanities/Fine Arts Elective (PHL 206: Ethics Preferred)	3

PSY 210, PSY 200: (Nursing Students are permitted to take PSY 210 prior to the successful completion of PSY 200)

Total Credits	69
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Practical Nursing Certificate

Degree Type
Certificate

Student Learning Outcomes

Graduates of the Practical Nursing Program will be able to:

- Promote the human dignity, integrity, self-determination and personal growth of clients, oneself, and members of the health care team. (NUR 114, NUR 115)
- Advocate for the client and family in the provision of compassionate and coordinated care to support the health, safety, and well-being of clients and families. (NUR 114, NUR 115)
- Provide a rationale for judgments used in the provision of safe, quality care and for decisions that promote the health of clients within a family context. (NUR 114, NUR 115)
- Incorporate information and technology within own scope of practice to support safe processes of care. (NUR 114, NUR 115)
- Demonstrate the effective use of strategies to reduce risk of harm to self or others. (NUR 114, NUR 115)
- Demonstrate awareness of good practice, boundaries of practice, and professional identity formation including knowledge and attitudes derived from self-understanding and empathy, ethical questions and choices that are gleaned from a situation, awareness of client needs, and other contextual knowing. (NUR 114, NUR 115)
- Function competently within own scope of practice as a member of the health care team. (NUR 114, NUR 115)
- By collaborating with health care team members, utilize evidence, tradition, and client preferences in predictable client care situations to promote optimal health status. (NUR 114, NUR 115)
- Utilize various sources of information to review outcomes of care identifying potential areas for improvement of the quality and safety of care. (NUR 114, NUR 115)
- Implement evidence-based practice in the provision of individualized health care. (NUR 114, NUR 115)

Success Guide

General Education Core

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
Item #	Title	Credits
BIO 201	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIO 202	HUMAN ANATOMY AND PHYSIOLOGY II	4
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
NUR 112	FUNDAMENTAL CONCEPTS OF NURSING	7
NUR 113	NURSING CONCEPTS I	8
NUR 114	NURSING CONCEPTS II	8
NUR 115	EVIDENCE BASED CLINICAL REASONING	2
Total Credits		45

Office Administration

Associate in Applied Science, Office Administration

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Office Administration Program (General Option) will be able to:

- Create, format, and edit business documents. (BUS 215)
- Maintain office records using alphabetic, numeric, and geographic records management skills. (OAD 138)
- Apply basic knowledge to student-created spreadsheets. (OAD 243)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (45 Credits)

Technical Core

Item #	Title	Credits
OAD 103	INTERMEDIATE KEYBOARDING	3
OAD 125	WORD PROCESSING	3
OAD 131	BUSINESS ENGLISH	3
OAD 138	RECORDS/INFORMATION MANAGEMENT	3
OAD 241	OFFICE CO-OP	3
OAD 243	SPREADSHEET APPLICATIONS	3
BUS 215	BUSINESS COMMUNICATION	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 245	ACCOUNTING WITH QUICKBOOKS	3
	Micro/Macroeconomics	3

Electives

Choose from:

Item #	Title	Credits
ACC 129	INDIVIDUAL INCOME TAXES	3
ACT 249	PAYROLL ACCOUNTING	3
BUS 105	CUSTOMER SERVICES	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 248	MANAGERIAL ACCOUNTING	3
OAD 101	BEGINNING KEYBOARDING	3
OAD 126	ADVANCED WORD PROCESSING	3
OAD 211	MEDICAL TERMINOLOGY	3
OAD 217	OFFICE MANAGEMENT	3
OAD 218	OFFICE PROCEDURES	3
OAD 231	OFFICE APPLICATIONS	3
OAD 246	OFFICE GRAPHICS AND PRESENTATIONS	3
WKO 106	WORKPLACE SKILLS	3
	Total Credits	63

Associate in Applied Science, Office Administration - Medical Office Option

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Office Administration Program (Medical Office Option) will be able to:

- Create, format, and edit business documents. (BUS 215)
- Maintain office records using alphabetic, numeric, and geographic records management skills. (OAD 138)
- Apply basic knowledge to student-created spreadsheets. (OAD 243)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (45 Credits)

Technical Core

Item #	Title	Credits
OAD 103	INTERMEDIATE KEYBOARDING	3
OAD 125	WORD PROCESSING	3
OAD 131	BUSINESS ENGLISH	3
OAD 138	RECORDS/INFORMATION MANAGEMENT	3
OAD 241	OFFICE CO-OP	3
OAD 243	SPREADSHEET APPLICATIONS	3
BUS 215	BUSINESS COMMUNICATION	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
	Micro/Macroeconomics	3
	Terminology	3

OAD/MAT/HIT Electives

Choose from:

Item #	Title	Credits
HIT 230	MEDICAL CODING SYSTEMS I	3
HIT 232	MEDICAL CODING SYSTEMS II	3
MAT 120	MEDICAL ADMINISTRATIVE PROCEDURES I	3
MAT 121	MEDICAL ADMINISTRATIVE PROCEDURES II	3
MAT 128	MEDICAL LAW AND ETHICS FOR THE MEDICAL ASSISTANT	3
MAT 220	MEDICAL OFFICE INSURANCE	3
OAD 214	MEDICAL OFFICE PROCEDURES	3
OAD 215	HEALTH INFORMATION MANAGEMENT	3

Electives

Choose from:

Item #	Title	Credits
ACT 249	PAYROLL ACCOUNTING	3
BUS 105	CUSTOMER SERVICES	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 248	MANAGERIAL ACCOUNTING	3
MAT 120	MEDICAL ADMINISTRATIVE PROCEDURES I	3
MAT 121	MEDICAL ADMINISTRATIVE PROCEDURES II	3
MAT 128	MEDICAL LAW AND ETHICS FOR THE MEDICAL ASSISTANT	3
MAT 220	MEDICAL OFFICE INSURANCE	3
OAD 101	BEGINNING KEYBOARDING	3
OAD 126	ADVANCED WORD PROCESSING	3
OAD 214	MEDICAL OFFICE PROCEDURES	3
OAD 215	HEALTH INFORMATION MANAGEMENT	3
OAD 217	OFFICE MANAGEMENT	3
OAD 218	OFFICE PROCEDURES	3
OAD 231	OFFICE APPLICATIONS	3
OAD 246	OFFICE GRAPHICS AND PRESENTATIONS	3
WKO 106	WORKPLACE SKILLS	3
Total Credits		63

Associate in Applied Science, Office Administration - Paralegal Option

Degree Type

A.A.S.

Student Learning Outcome

Graduates of the Office Administration Program (Paralegal Option) will be able to:

- Create, format, and edit business documents. (BUS 215)
- Maintain office records using alphabetic, numeric, and geographic records management skills. (OAD 138)
- Organize and maintain a law office, including basic management; scheduling; equipment operation; and creating, filing, and retrieving legal documents. (PRL 282)

Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Choose from:

Item #	Title	Credits
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (51 Credits)

Technical Core

Item #	Title	Credits
OAD 103	INTERMEDIATE KEYBOARDING	3
OAD 125	WORD PROCESSING	3
OAD 131	BUSINESS ENGLISH	3
OAD 138	RECORDS/INFORMATION MANAGEMENT	3
OAD 241	OFFICE CO-OP	3
OAD 243	SPREADSHEET APPLICATIONS	3
BUS 215	BUSINESS COMMUNICATION	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 263	THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS	3

Paralegal Electives

Choose from:

Item #	Title	Credits
PRL 101	INTRODUCTION TO PARALEGAL STUDY	3
PRL 102	BASIC RESEARCH AND WRITING	3
PRL 160	CRIMINAL LAW AND PROCEDURE	3
PRL 210	REAL PROPERTY LAW	3
PRL 230	DOMESTIC LAW	3
PRL 240	WILLS, TRUSTS, AND ESTATES	3
PRL 262	CIVIL LAW AND PROCEDURE	3
PRL 282	LAW OFFICE MANAGEMENT AND PROCEDURES	3

ACT/BUS/OAD/WKO Electives

Choose from:

Item #	Title	Credits
ACT 249	PAYROLL ACCOUNTING	3
BUS 105	CUSTOMER SERVICES	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 248	MANAGERIAL ACCOUNTING	3
OAD 101	BEGINNING KEYBOARDING	3
OAD 126	ADVANCED WORD PROCESSING	3
OAD 217	OFFICE MANAGEMENT	3
OAD 218	OFFICE PROCEDURES	3
OAD 231	OFFICE APPLICATIONS	3
OAD 246	OFFICE GRAPHICS AND PRESENTATIONS	3
WKO 106	WORKPLACE SKILLS	3
Total Credits		69

General Short-Term Certificate in Office Administration

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
OAD 103	INTERMEDIATE KEYBOARDING	3
OAD 125	WORD PROCESSING	3
OAD 131	BUSINESS ENGLISH	3
OAD 138	RECORDS/INFORMATION MANAGEMENT	3
BUS 215	BUSINESS COMMUNICATION	3
BUS 241	PRINCIPLES OF ACCOUNTING I	3
BUS 245	ACCOUNTING WITH QUICKBOOKS	3

Office Procedures/Applications

Choose from:

Item #	Title	Credits
OAD 218	OFFICE PROCEDURES	3
OAD 231	OFFICE APPLICATIONS	3

Accounting Elective

Choose from:

Item #	Title	Credits
ACT 249	PAYROLL ACCOUNTING	3
ACC 129	INDIVIDUAL INCOME TAXES	3
BUS 242	PRINCIPLES OF ACCOUNTING II	3
BUS 248	MANAGERIAL ACCOUNTING	3
Total Credits		27

Short-Term Certificate in Office Administration - Medical Office Option

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
OAD 103	INTERMEDIATE KEYBOARDING	3
OAD 125	WORD PROCESSING	3
OAD 138	RECORDS/INFORMATION MANAGEMENT	3
BUS 215	BUSINESS COMMUNICATION	3
MAT 121	MEDICAL ADMINISTRATIVE PROCEDURES II	3

Medical Terminology

Choose from:

Item #	Title	Credits
MAT 101	MEDICAL TERMINOLOGY	3
OAD 211	MEDICAL TERMINOLOGY	3

Business English/Office Procedures/Applications

Choose from:

Item #	Title	Credits
OAD 131	BUSINESS ENGLISH	3
OAD 218	OFFICE PROCEDURES	3
OAD 231	OFFICE APPLICATIONS	3

Office Procedures

Choose from:

Item #	Title	Credits
OAD 214	MEDICAL OFFICE PROCEDURES	3
MAT 120	MEDICAL ADMINISTRATIVE PROCEDURES I	3

Medical Office Insurance/Health Info Mgmt

Choose from:

Item #	Title	Credits
MAT 220	MEDICAL OFFICE INSURANCE	3
OAD 215	HEALTH INFORMATION MANAGEMENT	3
Total Credits		27

Salon and Spa Management

Associate in Applied Science, Salon and Spa Management - Cosmetology

Degree Type
A.A.S.

Student Learning Outcomes

(Cosmetology Option) will be able to:

- Function as a competent entry-level salon and spa professional. (COS 190)
- Perform tasks in a safe manner. (COS 190)
- Exhibit a positive work ethic. (COS 190)

Area I - Written Composition (3 Credits)

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (45 Credits)

Technical Core

Item #	Title	Credits
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3
WKO 106	WORKPLACE SKILLS	3

Other Courses

Item #	Title	Credits
COS 111	INTRODUCTION TO COSMETOLOGY	3
COS 112	INTRODUCTION TO COSMETOLOGY LAB	3
COS 113	THEORY OF CHEMICAL SERVICES	3
COS 114	CHEMICAL SERVICES LAB	3
COS 115	HAIR COLORING THEORY	3
COS 116	HAIR COLORING LAB	3
COS 117	BASIC SPA TECHNIQUES	3
COS 118	BASIC SPA TECHNIQUES LAB	3
COS 123	COSMETOLOGY SALON PRACTICES	3
COS 143	SPECIALTY HAIR PREPARATION TECHNIQUES	3
COS 144	HAIR SHAPING AND DESIGN	3
COS 190	INTERNSHIP IN COSMETOLOGY	3
Total Credits		66

Associate in Applied Science, Salon and Spa Management - Esthetics

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Salon and Spa Management Program (Esthetics Option) will be able to:

- Function as a competent entry-level salon and spa professional. (COS 190)
- Perform tasks in a safe manner. (COS 190)
- Exhibit a positive work ethic. (COS 190)

Area I - Written Composition (3 Credits)

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (12 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (42 Credits)

Technical Core

Item #	Title	Credits
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3
WKO 106	WORKPLACE SKILLS	3

Other Courses

Item #	Title	Credits
COS 117	BASIC SPA TECHNIQUES	3
COS 118	BASIC SPA TECHNIQUES LAB	3
COS 127	ESTHETICS THEORY	3
COS 134	ADVANCED ESTHETICS	3
COS 135	ADVANCED ESTHETICS APPLICATIONS	3
COS 163	FACIAL TREATMENTS	3
COS 164	FACIAL MACHINE	3
COS 165	RELATED SUBJECTS ESTHETICIANS	3
COS 168	BACTERIOLOGY AND SANITATION	3
COS 190	INTERNSHIP IN COSMETOLOGY	3
COS 191	CO-OP	3
Total Credits		63

Associate in Applied Science, Salon and Spa Management - Therapeutic

Massage

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Salon and Spa Management Program (Therapeutic Massage Option) will be able to:

- Function as a competent entry-level massage therapist. (MSG 206)
- Perform tasks in a safe manner. (MSG 206)
- Exhibit a positive work ethic. (MSG 206)

Area I - Written Composition (3 Credits)

Vocational Technical English or English

Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (45 Credits)

Technical Core

Item #	Title	Credits
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3
WKO 106	WORKPLACE SKILLS	3

Other Courses

Item #	Title	Credits
MSG 101	INTRODUCTION TO THERAPEUTIC MASSAGE	2
MSG 102	THERAPEUTIC MASSAGE LAB I	3
MSG 103	ANATOMY AND PHYSIOLOGY	3
MSG 104	MUSCULOSKELETAL AND KINESIOLOGY I	3
MSG 105	THERAPEUTIC MASSAGE SUPERVISED CLINICAL I	2
MSG 200	BUSINESS AND MARKETING PLANS	1
MSG 201	THERAPEUTIC MASSAGE FOR SPECIAL POPULATIONS	2
MSG 202	THERAPEUTIC MASSAGE LAB II	3
MSG 203	PATHOLOGY	3
MSG 204	MUSCULOSKELETAL AND KINESIOLOGY II	3
MSG 205	THERAPEUTIC MASSAGE SUPERVISED CLINICAL II	2
MSG 206	LICENSURE EXAM REVIEW	1

First Aid/CPR

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1

Electives

Choose from:

Item #	Title	Credits
BUS Courses		
CIS Courses		
COS Courses		
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1
EMS 106	MEDICAL TERMINOLOGY	2
HED 224	PERSONAL AND COMMUNITY HEALTH	3
HED 226	WELLNESS	1-3
HED 230	SAFETY AND FIRST AID	3
HED 232	Care and Prevention of Athletic Injuries	3
SAL Courses		
Total Credits		66

Suggested Career Pathway in Salon and Spa Management – Cosmetology

Degree Type

Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available. Students should consult an advisor.

Semester 1

Item #	Title	Credits
COS 111	INTRODUCTION TO COSMETOLOGY	3
COS 112	INTRODUCTION TO COSMETOLOGY LAB	3
COS 113	THEORY OF CHEMICAL SERVICES	3
COS 114	CHEMICAL SERVICES LAB	3
	MTH 116 or any 100-level MTH	3

**Eligible for Barbicide Certification*

Semester 2

Item #	Title	Credits
COS 115	HAIR COLORING THEORY	3
COS 116	HAIR COLORING LAB	3
COS 123	COSMETOLOGY SALON PRACTICES	3
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
	ENG 100 or ENG 101	3

**Eligible for Backscratchers Certification in Gel, Fiberglass and Dip Nails*

Semester 3

Item #	Title	Credits
COS 117	BASIC SPA TECHNIQUES	3
COS 118	BASIC SPA TECHNIQUES LAB	3
COS 143	SPECIALTY HAIR PREPARATION TECHNIQUES	3
WKO 106	WORKPLACE SKILLS	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

**Eligible for National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 4

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
COS 144	HAIR SHAPING AND DESIGN	3
COS 190	INTERNSHIP IN COSMETOLOGY	3

**Eligible for Certificate in Salon and Spa Management-COS*

Semester 5

Item #	Title	Credits
	Area IV History, Social and Behavioral Science	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3
	Area II Humanities and Fine Arts Elective	3

**Eligible to sit for the Alabama Board of Cosmetology Exam*

Eligible for AAS degree in Salon and Spa Management – Cosmetology Option

Total Credits 66

Suggested Career Pathway in Salon and Spa Management Esthetics Option

Degree Type
Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
COS 117	BASIC SPA TECHNIQUES	3
COS 118	BASIC SPA TECHNIQUES LAB	3
COS 190	INTERNSHIP IN COSMETOLOGY	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3

Semester 2

Item #	Title	Credits
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
COS 191	CO-OP	3
COS 168	BACTERIOLOGY AND SANITATION	3
COS 163	FACIAL TREATMENTS	3
COS 164	FACIAL MACHINE	3

**Eligible for Short-Term Certificate in Esthetics*

Semester 3

Item #	Title	Credits
	MTH 116 or any 100-level MTH	3
CIS 146	COMPUTER APPLICATION	3
COS 127	ESTHETICS THEORY	3
	ENG 100 or ENG 101	3
WKO 106	WORKPLACE SKILLS	3

**Eligible for National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 4

Item #	Title	Credits
COS 165	RELATED SUBJECTS ESTHETICIANS	3
COS 134	ADVANCED ESTHETICS	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3
COS 135	ADVANCED ESTHETICS APPLICATIONS	3

**Eligible for Certificate in Salon and Spa Management-EST*

Semester 5

Item #	Title	Credits
	Area IV History, Social and Behavioral Science	3
	Area II Humanities and Fine Arts Elective	3
	Area III Math or Science or Computer Science Elective	3

**Eligible to sit for the Alabama Board of Cosmetology Exam*

Eligible for AAS degree in Salon and Spa Management – Esthetics Option

Total Credits	66
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Suggested Career Pathway in Salon and Spa Management Massage Therapy Option

Degree Type

Career Pathway

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

Semester 1

Item #	Title	Credits
MSG 101	INTRODUCTION TO THERAPEUTIC MASSAGE	2
MSG 102	THERAPEUTIC MASSAGE LAB I	3
MSG 103	ANATOMY AND PHYSIOLOGY	3
MSG 104	MUSCULOSKELETAL AND KINESIOLOGY I	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

**Eligible for National Career Readiness Certificate and OSHA 10 Hour Card*

Semester 2

Item #	Title	Credits
MSG 105	THERAPEUTIC MASSAGE SUPERVISED CLINICAL I	2
MSG 201	THERAPEUTIC MASSAGE FOR SPECIAL POPULATIONS	2
MSG 202	THERAPEUTIC MASSAGE LAB II	3
MSG 204	MUSCULOSKELETAL AND KINESIOLOGY II	3
EMS 103	FIRST AID/CPR	1
CIS 146	COMPUTER APPLICATION	3

**Eligible for AHA CPR/First Aid Certification*

Semester 3

Item #	Title	Credits
	MTH 116 or any 100-level MTH	3
MSG 200	BUSINESS AND MARKETING PLANS	1
MSG 203	PATHOLOGY	3
MSG 205	THERAPEUTIC MASSAGE SUPERVISED CLINICAL II	2
MSG 206	LICENSURE EXAM REVIEW	1
	ENG 100 or ENG 101	3

**Eligible for Short-Term Certificate in Massage Therapy*

Semester 4

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
	Area II Humanities and Fine Arts Elective	3
	Area III Math or Science or Computer Science Elective	3

**Eligible for Certificate in Salon and Spa Management-MSG*

Semester 5

Item #	Title	Credits
	Area IV History, Social and Behavioral Science	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3
	Elective in BUS, COS, HED, SAL or CIS	3-4
	Elective in BUS, COS, HED, SAL or CIS	3-4

**Eligible to sit for the Alabama Board of Massage Therapy Exam*

Eligible for AAS degree in Salon and Spa Management – Massage Therapy Option

Total Credits	65-67
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Certificate in Salon and Spa Management - Cosmetology

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or English Composition I

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
WKO 106	WORKPLACE SKILLS	3
COS 111	INTRODUCTION TO COSMETOLOGY	3
COS 112	INTRODUCTION TO COSMETOLOGY LAB	3
COS 113	THEORY OF CHEMICAL SERVICES	3
COS 114	CHEMICAL SERVICES LAB	3
COS 115	HAIR COLORING THEORY	3
COS 116	HAIR COLORING LAB	3
COS 117	BASIC SPA TECHNIQUES	3
COS 118	BASIC SPA TECHNIQUES LAB	3
COS 123	COSMETOLOGY SALON PRACTICES	3
COS 143	SPECIALTY HAIR PREPARATION TECHNIQUES	3
COS 144	HAIR SHAPING AND DESIGN	3
COS 190	INTERNSHIP IN COSMETOLOGY	3
Total Credits		54

Certificate in Salon and Spa Management - Esthetics

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
SAL 201	ENTREPRENEURSHIP FOR SALON/SPA	3
WKO 106	WORKPLACE SKILLS	3
COS 117	BASIC SPA TECHNIQUES	3
COS 118	BASIC SPA TECHNIQUES LAB	3
COS 127	ESTHETICS THEORY	3
COS 134	ADVANCED ESTHETICS	3
COS 135	ADVANCED ESTHETICS APPLICATIONS	3
COS 163	FACIAL TREATMENTS	3
COS 164	FACIAL MACHINE	3
COS 165	RELATED SUBJECTS ESTHETICIANS	3
COS 168	BACTERIOLOGY AND SANITATION	3
COS 190	INTERNSHIP IN COSMETOLOGY	3
COS 191	CO-OP	3
	Total Credits	54

Certificate in Salon and Spa

Management - Therapeutic Massage

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or English

Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
SAL 133	SALON MANAGEMENT TECHNOLOGY	3
WKO 106	WORKPLACE SKILLS	3
MSG 101	INTRODUCTION TO THERAPEUTIC MASSAGE	2
MSG 102	THERAPEUTIC MASSAGE LAB I	3
MSG 103	ANATOMY AND PHYSIOLOGY	3
MSG 104	MUSCULOSKELETAL AND KINESIOLOGY I	3
MSG 105	THERAPEUTIC MASSAGE SUPERVISED CLINICAL I	2
MSG 200	BUSINESS AND MARKETING PLANS	1
MSG 201	THERAPEUTIC MASSAGE FOR SPECIAL POPULATIONS	2
MSG 202	THERAPEUTIC MASSAGE LAB II	3
MSG 203	PATHOLOGY	3
MSG 204	MUSCULOSKELETAL AND KINESIOLOGY II	3
MSG 205	THERAPEUTIC MASSAGE SUPERVISED CLINICAL II	2
MSG 206	LICENSURE EXAM REVIEW	1

First Aid/CPR

Choose from:

Item #	Title	Credits
EMS 100	CARDIOPULMONARY RESUSCITATION I	1
EMS 101	CARDIOPULMONARY RESUSCITATION II	1
EMS 103	FIRST AID/CPR	1

Electives

Choose from:

Item #	Title	Credits
	BUS Courses	
	CIS Courses	
	COS Courses	
EMS 106	MEDICAL TERMINOLOGY	2
	HED Courses	
	SAL Courses	
	Total Credits	54

Short-Term Certificate in Salon and Spa Management - Therapeutic Massage

Degree Type
Certificate

Success Guide

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
MSG 101	INTRODUCTION TO THERAPEUTIC MASSAGE	2
MSG 102	THERAPEUTIC MASSAGE LAB I	3
MSG 103	ANATOMY AND PHYSIOLOGY	3
MSG 104	MUSCULOSKELETAL AND KINESIOLOGY I	3
MSG 105	THERAPEUTIC MASSAGE SUPERVISED CLINICAL I	2
MSG 200	BUSINESS AND MARKETING PLANS	1
MSG 201	THERAPEUTIC MASSAGE FOR SPECIAL POPULATIONS	2
MSG 202	THERAPEUTIC MASSAGE LAB II	3
MSG 203	PATHOLOGY	3
MSG 204	MUSCULOSKELETAL AND KINESIOLOGY II	3
MSG 205	THERAPEUTIC MASSAGE SUPERVISED CLINICAL II	2
MSG 206	LICENSURE EXAM REVIEW	1
EMS 103	FIRST AID/CPR	1
	Total Credits	29

Welding

Associate in Applied Science, Industrial Systems Technology – Welding Technology

Degree Type

A.A.S.

Student Learning Outcomes

Graduates of the Industrial Systems Technology Program (Electrical and Instrumentation Option) will be able to:

- Function as a competent entry-level welder by demonstrating knowledge and skills retained from coursework (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 credits)

Vocational Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities and Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose one:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (9 Credits)

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Math, Science, or CIS

****Student is responsible for meeting with an advisor to select courses.**

Area IV - History, Social, & Behavioral Sciences (3 Credits)

History, Social, & Behavioral Sciences

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area V - Pre-Professional, Major, & Elective Courses (45 credits)

Technical Core

Item #	Title	Credits
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
	Technical Cooperative Education	3
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3
	WDT Electives	30
	Total Credits	66

Certificate in Industrial Systems Technology – Welding Technology

Degree Type

Certificate

Success Guide

General Education Core

Vocational Technical English or

English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Fundamentals of Oral Communication or Public Speaking

Choose one:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Mathematics

Choose from:

Item #	Title	Credits
BUS 271	BUSINESS STATISTICS I	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY 3 TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY 3 TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATION	3

Area V - Pre-Professional, Major, & Elective Courses

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
INT 117	PRINCIPLES OF INDUSTRIAL MECHANICS	3
INT 119	PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING	3
	WDT Electives	24
	Total Credits	48

Short-Term Certificate in Welding Technology

Degree Type

Certificate

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
	WDT Courses	12
	Total Credits	12

Short-Term Certificate in Welding
Technology – Structural Welding

Degree Type

Certificate

Success Guide

Area V - Pre-Professional, Major, &
Elective Courses

Item #	Title	Credits
WDT 120	SHIELDED METAL ARC WELDING GROOVE	3
WDT 125	SHIELDED METAL ARC WELDING GROOVE LAB	3

SMAW Fillet/OFC or PAC/CAC

Choose from:

Item #	Title	Credits
WDT 108	SMAW FILLET/OFC	3
WDT 109	SMAW FILLET/PAC/CAC	3

SMAW Fillet/OFC or PAC/CAC

Choose from:

Item #	Title	Credits
WDT 122	SMAW FILLET/OFC LAB	3
WDT 123	SMAW FILLET/PAC/CAC LAB	3

NCCER Core

Item #	Title	Credits
WKO 110	NCCER CORE	3
	Total Credits	15

COURSE DESCRIPTIONS



Courses

Accounting

ACC 129 : INDIVIDUAL INCOME TAXES

This course introduces the relevant laws governing individual income taxation. Emphasis is placed on filing status, exemptions for dependents, gross income, adjustments, deductions, and computation of tax. Upon completion, students should be able to complete various tax forms pertaining to the topics covered in the course.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

Accounting Technology

ACT 249 : PAYROLL ACCOUNTING

This course focuses on federal, state and local laws affecting payrolls. Emphasis is on payroll accounting procedures and practices, and on payroll tax reports. Upon completion of this course, the student will be able to apply knowledge of federal, state and local laws affecting payrolls. CORE

Credits 3

Advanced Manufacturing

ADM 101 : PRECISION MEASUREMENT

This course covers the use of precision measurement instruments utilized in inspection. In addition, basic print reading techniques reverse engineering, and related industry standards required in advanced manufacturing disciplines are covered. Upon completion, students should be able to demonstrate correct use of precision measuring instruments, interpret basic prints and apply basic reverse engineering techniques.

Credits 3

Prerequisites

As determined by college

ADM 106 : QUALITY CONTROL CONCEPTS

This course provides an overview of the materials and processes and quality assurance topics used in commercial and specialized manufacturing products. Emphasis is placed on process evaluation techniques that can be extrapolated to other system areas such as new products and new technology. Emphasis is also placed on quality assurance including the history of the quality movement, group problem solving, and statistical methods such as statistical process control (SPC), process capability studies, and the concepts associated with lean manufacturing.

Credits 3

Prerequisites

As required by college

ADM 107 : CAD CONCEPTS

This course provides an introduction of Computer-Aided Drafting (CAD) techniques and terminology. Concepts to include CAD software, and skills necessary to perform the basic computer aided drafting functions. Related lab projects are developed from CAD to reinforce knowledge of various shop drawing concepts, software commands, and file management that will be used in the Computer Integrated Manufacturing (CIM). The course will provide an overview of CIM which will include the study of manufacturing planning, integration, and implementation of automation. This course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design.

Credits 3

Prerequisites

As determined by college

ADM 108 : INTRO TO 3D MODELING

This course introduces the fundamentals of 3D parametric CAD software for the creation of parts, assemblies and drawings. Students will use SolidWorks software to sketch, create, edit, and constrain 3D solid models, as well as create and dimension 2D drawings per ASME standards from these models. The course focuses not only on the individual tools available in the software, but also on the best approach to the use of these tools, so that the design progresses in a logical manner, producing an effective and efficient design process. The elements of global collaboration are introduced along with printing concepts. A hands-on approach is used in this class to build a foundation for the continued training and application.

Credits 3

Prerequisites

As required by college

ADM 110 : BLUEPRINT READING

This course is designed to provide students with a comprehensive understanding of blueprint reading. Topics include identifying types of lines and symbols used in mechanical drawings; recognition and interpretation of various types of views, tolerance, and dimensions.

Credits 3

Prerequisites

As required by college

ADM 114 : DESIGN INNOVATION

This course introduces students to concepts that enable them to think like a designer when approaching architectural, engineering and additive manufacturing tasks. Emphasis will be placed on design and problem-solving skills when working independently, or with a team. This course focuses on giving students exposure to creativity, problem solving skills, and the design processes in which a design-centered approach will be employed to develop innovated solutions. This course includes components to develop basic skills to express innovated solutions to design problems with the application of projects, drawings, as well as oral and written communication skills. Students will be introduced to related computer based tools used by architect, engineers, and design manufacturers, (e.g., spreadsheet, word processing, presentation software, and Internet).

Credits 3

Prerequisites

As determined by college

ADM 150 : TECHNICAL COOPERATIVE EDUCATION

Students work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting.

Credits 1

Prerequisites

As determined by college

ADM 151 : TECHNICAL COOPERATIVE EDUCATION

Students work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting.

Credits 1

Prerequisites

As determined by college

ADM 152 : TECHNICAL COOPERATIVE EDUCATION

Students work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting.

Credits 1

Prerequisites

As determined by college

ADM 153 : TECHNICAL COOPERATIVE EDUCATION

Students work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting.

Credits 1

Prerequisites

As determined by college

ADM 154 : TECHNICAL COOPERATIVE EDUCATION

Students work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting.

Credits 1

Prerequisites

As determined by college

ADM 155 : MANUFACTURING PROJECTS

This is an introduction to project base learning. This course will involve research, team skills, the collaboration of trades, outsourcing, manufacturing management that emphasizes synthesis through collaborative learning. Students integrate and apply previous knowledge, skills, and experiences they learned in their major and other academic courses to complete individual & team-based projects. The course emphasizes communication skills, critical thinking, problemsolving, computer literacy, and teaming skills.

Credits 3

Prerequisites

As determined by college

ADM 160 : ADDITIVE MANUFACTURING PRODUCTION TECHNIQUES

In this class student will utilize the various Additive Manufacturing (AM) design software to learn different techniques of building additively. Student will engaged in using the software and build theory to discover best build for the part. Tool paths, angles, rotation and build support will be discussed. Additive process will include polymers and powders. Cost and build time will be calculated on the different build parameters.

Credits 3

Prerequisites

As determined by college

ADM 215 : GEOMETRIC DIMENSIONING & TOLERANCING

This course is designed to teach fundamental concepts of size description by geometric methods including appropriate engineering controls. Emphasis is placed on the drawing and application of common geometric dimensioning and tolerancing symbols to engineering drawings as designated by the latest ANSI/ASME Standards. Upon completion, students should be able to use geometric dimensioning and tolerancing symbols in applying size information and manufacturing controls to working drawings.

Credits 3

Prerequisites

As required by college

ADM 250 : INTRODUCTION TO FLEXIBLE MANUFACTURING CELLS

This course covers techniques involved when grouping related machines for the purpose of completing a series of manufacturing processes in a flexible manufacturing cell. The student will be involved with the computerized integration of programmable control systems such as robotics, machine tools, and other peripheral equipment to emulate real-world manufacturing concepts employed in flexible manufacturing cells.

Credits 4

Prerequisites

As determined by college

ADM 255 : APPLICATION OF DESIGN (CAPSTONE)

This is a project or research-oriented course that emphasizes synthesis through collaborative learning. Students integrate and apply previous knowledge, skills, and experiences they learned in their major and other academic courses to complete individual & team-based projects. Students will perform an individual new concept project and a group, industry-based live project to demonstrate they know the skills learned in the program of study. At the end of the semester, students will be required to present their group project to an industry. The course emphasizes communication skills, critical thinking, problem solving, computer literacy and teaming skills. *NOTE: This course is usually taken during the last two (2) semesters of the program of study.*

Credits 3

Prerequisite Courses

MTT 218: COMPUTER INTEGRATED MANUFACTURING (CIM)

ADM 261 : REVERSE ENGINEERING

This course emphasizes reverse engineering techniques and quality control inspection of parts employing 3D printing, scanning, and Coordinate Measuring Machine (CMM technologies). The emphasis is on using applicable software to convert scanned images from point cloud data into 3D models. The process will allow using software to clean up point cloud data, create airtight 3D models, run a comparison analysis of collected data to solid, improve or reproduce a scanned part, print the part and then perform an inspection using CMM probe for additional analysis and comparison.

Credits 3

Prerequisites

As determined by college

ADM 277 : INDUSTRIAL ENERGY SOURCES SUSTAINABILITY

This class is a study of the different Industrial Energy sources and the ethical and Government regulations associated with these sources of energy.

Credits 3

Prerequisites

As determined by college

ADM 281 : ADVANCED MANUFACTURING PROCESSES/NEW AND EMERGING ENERGY TECHNOLOGIES

Students in this course explore the latest in energy technologies and how they are designed to increase efficiencies, protect the environment, and streamline processes. Students discover how some of the new technologies have been around for quite some time and the reasons they are capturing new attention.

Credits 3

Prerequisites

As determined by college

ADM 295 : MSSC GREEN PRODUCTION

This course is designed to provide students with knowledge and skills related to green production in a manufacturing environment. Topics covered include? Train workers in environmental issues? Implement and promote environmental programs, projects, policies or procedures? Conduct environmental incident and hazard investigations? Conduct preventive environmental inspections? Monitor environmental aspects at each stage of productions? Implement continuous improvement in environmental assurance? Use advanced materials in production to reduce waste? Reprocess materials by recycling and reuse This course is equivalent to WKO 135. Students completing this course will receive an MSSC certificate in green production.

Credits 3

Prerequisite Courses

WKO 131: MSSC SAFETY COURSE

Prerequisites

As determined by college

Air Conditioning and Refrigeration Technology

ACR 111 : PRINCIPLES OF REFRIGERATION

This course emphasizes the fundamental principles for air conditioning and refrigeration. Instruction is provided in the theory and principles of refrigeration and heat transfer, HVAC/R system components, common, and specialty tools for HVAC/R, and application of the concepts of basic compression refrigeration. Upon completion, students should identify system components and understand their functions, identify and use common and specialty HVAC/R tools, and maintain components of a basic compression refrigeration system. This is a CORE course.

Credits 3

Prerequisites

As determined by college

ACR 112 : HVACR SERVICE PROCEDURES

This course covers system performance checks and refrigerant cycle diagnosis. Emphasis is placed on the use of refrigerant recovery/ recycle units, industry codes, refrigerant coils and correct methods of charging and recovering refrigerants. Upon completion, students should be able to properly recover/recycle refrigerants and demonstrate safe, correct service procedures which comply with the no-venting laws.

Credits 3

Prerequisites

As determined by college

ACR 113 : REFRIGERATION PIPING PRACTICES

The course introduces students to the proper installation procedures of refrigerant piping and tubing for the heating, ventilation, air conditioning and refrigeration industry. This course includes various methods of working with and joining tubing. Upon completion, students should comprehend related terminology, and be able to fabricate pipe, tubing, and pipe fittings. CORE

Credits 3

Prerequisites

As determined by college

ACR 119 : FUNDAMENTALS OF GAS HEATING SYSTEMS

This course provides instruction on general service and installation for common gas furnace system components. Upon completion, students will be able to install and service gas furnaces in a wide range of applications.

Credits 3

Prerequisites

As determined by college

ACR 121 : PRINCIPLES OF ELECTRICITY FOR HVACR

This course is designed to provide the student with the basic knowledge of electrical theory and circuitry as it pertains to air conditioning and refrigeration. This course emphasizes safety, definitions, symbols, laws, circuits, and electrical test instruments. Upon completion students should understand and be able to apply the basic principles of HVACR circuits and circuit components. This is a CORE course.

Credits 3

Prerequisites

As determined by college

ACR 122 : HVACR ELECTRIC CIRCUITS

This course introduces the student to electrical circuits and diagrams. Electrical symbols and basic wiring diagrams are constructed in this course. Upon completion, student should understand standard wiring diagrams and symbols and be able to construct various types of electrical circuits. This is a CORE course.

Credits 3

Prerequisites

As determined by college

ACR 123 : HVAC/R ELECTRICAL COMPONENTS

This course introduces students to electrical components and controls. Emphasis is placed of the operations on motors, relays, contactors, starters, and other HVAC electrical components. Upon completion, students should be able to install electrical components and determine their proper operation. This is a CORE course.

Credits 3

Prerequisites

As required by college

ACR 128 : HEAT LOAD CALCULATIONS

This course focuses on heat flow into and out of building structures. Emphasis is placed on determining heat gain/heat loss of a given structure. Upon completion, students should be able to calculate heat load and determine HVAC equipment size requirements.

Credits 3

Prerequisites

As required by college

ACR 134 : ICE MACHINES

This course introduces students to commercial ice machines. Emphasis is placed on components, electrical and mechanical operation sequences, control adjustment procedures, preventive maintenance, repairs, and installation procedures. Upon completion, student should be able to install, service and repair commercial ice machines.

Credits 3

Prerequisites

As required by college

ACR 135 : MECHANICAL/GAS/SAFETY CODES

This course is to enhance the student's knowledge of the International Fuel Gas Code and International Mechanical Code as well as fire and job safety requirements. Emphasis is placed on code book content and compliance with installation requirements. Upon completion, students should be able to apply code requirements to all work.

Credits 3

Prerequisites

As required by college

ACR 138 : CUSTOMER RELATION IN HVAC

This course covers the basic aspects of customer relations needed by the HVAC technician. Topics include employability skills associated with job performance, record keeping, service invoices, certification requirements, local ordinances, and business ethics. Upon completion, students should be able to get a job and keep it.

Credits 3

Prerequisites

As required by college

ACR 144 : BASIC DRAWING AND BLUEPRINT READING IN HVAC

This course covers basic drawing and blueprint reading as applied to the HVAC industry. Emphasis is on three-view drawings, basic duct systems, and isometric piping. Upon course completion, students should be able to perform basic drawings related to HVAC systems and read pertinent blueprints.

Credits 3

Prerequisites

As required by college

ACR 147 : REFRIGERANT TRANSITION AND RECOVERY THEORY

This course is EPA-approved and covers material relating to the requirements necessary for type I, II, and III universal certification. Upon completion, students should be prepared to take the EPA 608 certification examination.

Credits 3

Prerequisites

As determined by college

ACR 148 : HEAT PUMP SYSTEMS I

Instruction received in this course centers around the basic theory and application of heat pump systems and components. Upon completion students will be able to install and service heat pumps in a wide variety of applications.

Credits 3

Prerequisites

As determined by college

ACR 181 : SPECIAL TOPICS IN AIR CONDITIONING AND REFRIGERATION I

This course provides specialized instruction in various areas related to the air conditioning and refrigeration industry.

Credits 3

Prerequisites

As required by college

ACR 200 : REVIEW FOR CONTRACTORS EXAM

This course prepares students to take the State Certification Examination. Emphasis is placed on all pertinent codes, piping procedures, duct design, load calculation, psychometrics, installation procedures, and air distribution. Upon completion, students should be prepared to take the contractors exam.

Credits 3

Prerequisites

As required by college

ACR 203 : COMMERCIAL REFRIGERATION

This course focuses on commercial refrigeration systems. Emphasis is placed on evaporators, condensers, compressors, expansion devices, special refrigeration components and application of refrigeration systems. Upon completion students should be able to service and repair commercial refrigeration systems.

Credits 3

Prerequisites

As determined by college

ACR 205 : SYSTEM SIZING AND AIR DISTRIBUTION

This course provides instruction in the load calculation of a structure and system sizing. Topics of instruction include heat loss, heat gain, equipment and air distribution sizing, and factors making acceptable indoor air quality. Upon course completion, students should be able to calculate system requirements.

Credits 3

Prerequisites

As required by college

ACR 210 : TROUBLESHOOTING HVACR SYSTEMS

This course provides instruction in the use of various meters and gauges used in the HVACR industry. Emphasis is placed on general service procedures, system diagnosis, and corrective measure, methods of leak detection, and system evacuation, charging and performance checks. Upon completion students should be able to perform basic troubleshooting of HVAC/R.

Credits 3

Prerequisites

As determined by college

Art

ART 100 : ART APPRECIATION

This course is an introduction to the appreciation of art through an examination of the themes and purposes of art, the exploration of visual arts media and methods, and culturally significant works of art from the past and present. The course informs students about the language of art and its relevance in everyday life.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

ART 113 : DRAWING I

This course provides the opportunity to develop perceptual and technical skills in a variety of media. Emphasis is placed on communication through experimenting with composition, subject matter and technique. Upon completion, students should demonstrate and apply the fundamentals of art to various creative drawing projects.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

ART 114 : DRAWING II

This course advances the students drawing skills in various art media. Emphasis is placed on communication through experimentation, composition, technique and personal expression. Upon completion, students should demonstrate creative drawing skills, the application of the fundamentals of art, and the communication of personal thoughts and feelings.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Drawing I

ART 121 : TWO-DIMENSIONAL COMPOSITION I

This course introduces the basic of concepts of two-dimensional design. Topics include the elements and principles of design with emphasis on the arrangements and relationships among them. Upon completion, students should demonstrate an effective use of these elements and principles of design in creating two-dimensional compositions.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

ART 127 : THREE-DIMENSIONAL COMPOSITION

This course introduces art materials and principles of design that acquaint the beginner with the fundamentals of three-dimensional art. Emphasis is placed on the use of art fundamentals and the creative exploration of materials in constructing three-dimensional art works. Upon completion, students should demonstrate basic technical skills and a personal awareness of the creative potential inherent in three dimensional art forms.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

[ART 113](#) OR [ART 121](#), and permission of instructor

ART 133 : CERAMICS I

This course introduces methods of clay forming as a means of expression. Topics may include hand building, wheel throwing, glazing, construction, design, and the functional and aesthetic aspects of pottery. Upon completion, students should demonstrate through their work, a knowledge of the methods, as well as an understanding of the craftsmanship and aesthetics involved in ceramics.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

ART 134 : CERAMICS II

This course develops the methods of clay forming as a means of expression. Topics may include hand building, glazing, design and the functional and aesthetic aspects of pottery, although emphasis will be placed on the wheel throwing method. Upon completion, students should demonstrate improved craftsmanship and aesthetic quality in the production of pottery.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisite Courses

[ART 133: CERAMICS I](#)

ART 203 : ART HISTORY I

This course covers the chronological development of different forms of art, such as sculpture, painting, and architecture. Emphasis is placed on history from the ancient period through the Renaissance. Upon completion, students should be able to communicate a knowledge of time period and chronological sequence including a knowledge of themes, styles and of the impact of society on the arts.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

ART 204 : ART HISTORY II

This course covers a study of the chronological development of different forms of art, such as sculpture, painting and architecture. Emphasis is placed on history from the Baroque to the present. Upon completion, students should be able to communicate a knowledge of time period and chronological sequence including a knowledge of themes, styles and of the impact of society on the arts.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by college

ART 216 : PRINTMAKING I

This course introduces various printmaking processes. Topics include relief, intaglio, serigraphy, or lithography and the creative process. Upon completion, students should have a basic understanding of the creative and technical problems associated with printmaking.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[ART 113](#), [ART 121](#), and/or as required by program

ART 217 : PRINTMAKING II

This course provides the opportunity for the student to study a printmaking process beyond the introductory level. Emphasis is placed on creativity, composition, and technique in the communication of ideas through printmaking. Upon completion, students should demonstrate an understanding of the printmaking process as a creative tool for the expression of ideas.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[ART 216](#) and/or as required by program

ART 233 : PAINTING I

This course is designed to introduce the student to fundamental painting processes and materials. Topics include art fundamentals, color theory, and composition. Upon completion, students should be able to demonstrate the fundamentals of art and discuss various approaches to the media and the creative processes associated with painting.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

[ART 113](#), [ART 121](#), and/or as required by program

ART 234 : PAINTING II

This course is designed to develop the student's knowledge of the materials and procedures of painting beyond the introductory level. Emphasis is placed on the creative and technical problems associated with communicating through composition and style. Upon completion, students should be able to demonstrate the application of the fundamentals of painting and the creative process to the communication of ideas.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisite Courses

[ART 233: PAINTING I](#)

ART 243 : SCULPTURE I

This course provides a study of three-dimensional form by familiarizing students with sculpting media and techniques. Topics include the fundamentals of art, sculpting media with emphasis on the creative process. Upon completion, students should understand the fundamentals of art and three-dimensional form, as well as the various media and processes associated with sculpture.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[ART 125](#), [ART 127](#) and/or as required by program

ART 244 : SCULPTURE II

This course is designed to sharpen skills in the media and processes of sculpture. Emphasis is placed on personal expression through three-dimensional form. Upon completion, students should be able to apply the fundamentals of art, their knowledge of form, and the sculptural processes to communicating ideas.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisite Courses

[ART 243: SCULPTURE I](#)

Astronomy

AST 220 : INTRODUCTION TO ASTRONOMY

This course covers the history of astronomy and the development of astronomical thought leading to the birth of modern astronomy and its most recent development. Emphasis is placed on the coverage of astronomical instruments and measuring technologies, the solar system, the Milky Way galaxy, important extra galactic objects and cosmology. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

Biology

BIO 103 : PRINCIPLES OF BIOLOGY I

This is an introductory course for both science and non-science majors. It covers physical, chemical, and biological principles common to all organisms. These principles are explained through the study of cell structure and function, cellular reproduction, basic biochemistry, cell energetics, the process of photosynthesis, and Mendelian and molecular genetics. Also included are the scientific method, basic principles of evolution, and an overview of the diversity of life with survey of viruses, prokaryotes, and the protists. A 120-minute laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

BIO 104 : PRINCIPLES OF BIOLOGY II

This course is an introduction to the basic ecological and evolutionary relationships of plants, fungi, and animals and a survey of plant, fungi, and animal diversity including classification, morphology, physiology, and reproduction. A 180-minute laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

BIO 201 : HUMAN ANATOMY AND PHYSIOLOGY I

This course covers the structure and function of the human body. Included is an orientation of the human body; a study of cells and tissues, joints, the integumentary, skeletal, muscular, and nervous systems; and the senses. Dissection, histological studies, and physiology are featured in the laboratory experience. A 120-minute laboratory is required.

Credits 4

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

BIO 202 : HUMAN ANATOMY AND PHYSIOLOGY II

This course covers the structure and function of the human body. Included is the study of basic nutrition and metabolism; basic principles of fluids, electrolytes, and acid-base balance; and the endocrine, respiratory, digestive, urinary, cardiovascular, lymphatic, and reproductive systems. Dissection, histological studies, and physiology are featured in the laboratory experience. A 120-minute laboratory is required.

Credits 4

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[BIO 201: HUMAN ANATOMY AND PHYSIOLOGY I](#)

BIO 220 : GENERAL MICROBIOLOGY

This course includes historical perspectives, cell structure and function, microbial genetics, infectious diseases, immunology, distribution, physiology, culture, identification, classification, and disease control of microorganisms. The laboratory experience includes microtechniques, distribution, culture, identification, and control. Two 120 minute laboratories are required.

Credits 4

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Recommended Prerequisites

4 SEMESTER HOURS OF CHEMISTRY

BIO 230 : HUMAN PATHOPHYSIOLOGY

Human Pathophysiology covers the nature, etiology, prognosis, prevention, and therapeutics of human disease. A 120 minute laboratory is required.

Credits 4

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[BIO 201](#), [BIO 202](#), AND [BIO 220](#)

Building Construction

BUC 110 : BASIC CONSTRUCTION TOOLS AND MATERIALS

This course emphasizes the tools and materials used in the construction industry. Topics include safety, hand tools, handheld power tools and construction materials. Upon completion, students should be able to work safely within the industry and operate various hand tools and power equipment. CORE

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 111 : BASIC CONSTRUCTION LAYOUT

This course provides students basic building layout skills. Topics include the builder's level, transit and basic site layout techniques. Upon completion, students should be able to solve differential leveling problems, set up and operate the builder's level and transit, build batter boards, and perform basic construction layout procedures.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 112 : CONSTRUCTION MEASUREMENTS AND CALCULATIONS

This course focuses on the mathematics and calculations used in building construction. Topics include direct and computed measurements and practical applications of mathematical formulas. Upon completion, students should be able to apply measurement and mathematical formulas used in building construction.

Credits 3

Prerequisites

As determined by college

Corequisites

As determined by college

BUC 113 : BASIC CONSTRUCTION PRINT READING

This course introduces students to construction print reading. Topics include symbols and abbreviations, basic plans, elevations, sections and details. Upon completion, students should be able to read basic construction plans and trade information for major crafts employed at a construction site.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 115 : ROOF AND CEILING FRAMING

This course focuses on construction framing above the wall-plate line. Topics include ceiling framing roof framing, and trusses. Upon completion, students should be able to frame residential ceilings and roofs, design and build trusses and apply heavy timber construction principals.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 121 : FLOORS AND WALLS FRAMING

This course focuses on floor and wall layout. Topics include leveling tools, framing, layouts, and components of wall and floor framing to include beams, girders, floor joists, sub-flooring, partitions, bracing, headers, sills, doors, and corners. Upon completion, students should be able to properly perform basic construction framing procedures for floor and walls.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 131 : INTERIOR AND EXTERIOR FINISHES

This course is designed to provide students an in-depth understanding of interior and exterior finishes. Topics include exterior wall coverings, flooring, and interior finishes. Upon completion, students should be able to install and apply interior and exterior finishes to walls and overhangs, and install floors.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 133 : BUILDING CODES

This course focuses on building codes, real estate, and project scheduling. Topics include real estate, project planning, specifications, company structure and organization, building codes and related legal aspects. Upon completion, students should be able to identify the components of the construction process, locate information in building code books, plan construction projects and understand the implications of various real estate issues.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 141 : ON-GRADE CONCRETE APPLICATIONS

This course emphasizes techniques and principles required to design on-grade concrete forms. Topics include concrete curbs, edge forms, footing forms, concrete wall forms, concrete piers and columns, and templates with anchor bolts and dowels. Upon completion, students should be able to perform on-grade concrete slab forming, wall forming, curb forming, and set templates with anchor bolts.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 142 : CONSTRUCTION ESTIMATING

This course covers the procedures involved in planning and estimating a residential structure. Topics include labor and equipment with emphasis placed on quantity take-off of materials necessary to construct a residential structure. Upon completion, students should be able to accurately complete a take-off of materials and equipments needs and plan the labor to construct a residential structure.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 143 : ABOVE-GRADE CONCRETE APPLICATIONS

This course emphasizes techniques and principles required to build above grade forms and to provide practice in constructing abovegrade form systems. Topics include beam forms, slab forms, flying-form tables, crane-set wall panels, gang-form system for walls, and stair forms. Upon completion, students should be able to build abovegrade concrete form systems, flying-form tables for scale, and build gang-form systems for walls and stairs.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 150 : HOMEBUILDERS LICENSE EXAM REVIEW

This course prepares students to take the State Builders License exam for residential construction. Topics include basic residential frame and finish review, basic estimating, and associated areas. With appropriate field experience, upon completion, students should qualify to take the residential contractors exam

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 164 : DECKS AND PATIOS

This course covers basic deck and patio design and construction. Topics include design criteria, sketching, estimating, and construction of decks, patios, and gazebos. Upon completion, students should be able to build a deck or patio from the ground up.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 170 : FRAMING LAB

This lab provides reinforcement and additional time on task for students that have taken or are taking [BUC 115](#) and [BUC 121](#). Upon completion the student should be thoroughly accomplished in all aspects of framing floors, walls, ceilings, and roofs.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 171 : FINISHING LAB

This lab provides reinforcement and additional time on task for students that have taken or are taking [BUC 131](#), [BUC 154](#), and [BUC 158](#). Upon completion the student should be thoroughly accomplished in all aspects of interior and exterior finishing.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 214 : SOILS & SITE WORK

This course covers site conditions and soil types and their physical properties. Topics include site preparation, access, mechanical analysis, classification of soils, and hydrostatics of groundwater. Upon completion, students should be able to adequately prepare a building site according to plans and specifications.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 216 : ELECTRICAL WIRING SYSTEMS

This course introduces residential and commercial electrical wiring systems. Topics include safety, care and use of tools and materials, use of NEC, circuit planning overcurrent protection, and installation of conduits, cables, and conductors. Upon completion, students be able to correctly identify tools, materials and procedures for electrical installation.

Credits 3**Prerequisites**

As determined by college.

Corequisites

As determined by college

BUC 217 : CONSTRUCTION SURVEYING

This course covers field surveying applications for residential and commercial construction. Topics include building layout and leveling, linear measurement and turning angles, plumbing vertical members, and topographic and utilities surveys. Upon completion, students should be able to properly and accurately use surveying equipment to lay out residential and commercial buildings.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 230 : FUNDAMENTALS OF TILE INSTALLATION

This course provides an overview of tile installation. Topics include tile selection, surface preparation, layout, adhesive, cutting, setting, grouting and finishing.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 231 : SUSPENDING CEILINGS

This course provides an overview of suspending ceilings. Topics include material selection, grid design, L channel installation, T channel installation and Cross T installation.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 232 : INSULATING & ENERGY EFFICIENCY

This course provides an overview of insulating and energy efficiency. Topics include selection of various types of insulating materials and an overview of energy efficiency.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

BUC 233 : DRYWALL INSTALLATION & FINISHING

This course. Provides an overview of drywall installation and finishing. Topics include construction materials, thermal and moisture protection, drywall installation, and drywall finishing.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

Business

BUS 105 : CUSTOMER SERVICES

This course presents the foundations required for developing skills and knowledge to work effectively with internal and external customers. The students will gain an understanding of the skills, attitudes, and thinking patterns needed to win customer satisfaction and loyalty.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 146 : PERSONAL FINANCE

This course is a survey of topics of interest to the consumer. Topics include budgeting, financial institutions, basic income tax, credit, consumer protection, insurance, house purchase, retirement planning, estate planning, investing, and consumer purchases.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 147 : INTRO TO FINANCE

This course is a survey of monetary and credit systems. Topics include the role of the Federal Reserve System, sources of capital, including forms of long-term corporate financing, and consumer credit in the financial structure of our economy.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 175 : RETAILING

This course is a study of the principles and practices of retailing. Topics include planning, policies and procedures of distribution, store design, layout and location, the economic and social role of retailing, competitive strategies, and retail management.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 176 : PROMOTIONAL STRATEGIES

This course provides an overview of the tools and techniques used by businesses in their promotional strategies. Topics include variables affecting promotional decision, information needed to access these variables, the strengths and limitations of methods and strategies, and the fundamentals of managerial decision making.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 177 : SALESMANSHIP

This course provides an introduction to the principles and practices of ethical salesmanship. Topics include industrial and retail selling methods of market analysis, professional salesmanship and sales methods, consumer types, attitudes, and behavior.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 178 : PURCHASING

This course provides an overview of the principles of purchasing for resale. Topics include buying techniques, market buying systems, financial management of purchasing department, market information systems, and problems confronting retail and wholesale buyers.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 186 : ELEMENTS OF SUPERVISION

This course is an introduction to the fundamentals of supervision. Topics include the functions of management, responsibilities of the supervisor, management-employee relations, organizational structure, project management, and employee training and rating.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 215 : BUSINESS COMMUNICATION

This course covers written, oral and nonverbal communications. Topics include the application of communication principles to the production of clear, correct, and logically organized faxes, e-mail, memos, letters, resumes, reports, and other business communications.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 241 : PRINCIPLES OF ACCOUNTING I

This course is designed to provide a basic theory of accounting principles and practices used by service and merchandising enterprises. Emphasis is placed on financial accounting, including the accounting cycle, and financial statement preparation analysis.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

BUS 242 : PRINCIPLES OF ACCOUNTING II

This course is a continuation of [BUS 241](#). In addition to a study of financial accounting, this course also places emphasis upon managing accounting, with coverage of corporations, statement analysis introductory cost accounting, and use of information for planning, and decision making.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[BUS 241: PRINCIPLES OF ACCOUNTING I](#)

BUS 245 : ACCOUNTING WITH QUICKBOOKS

This course will introduce students to computerized accounting systems using QuickBooks. Students will set up and perform routine tasks such as recording business transactions, maintaining customer and vendor files, vouchering, controlling inventory, processing sales, maintaining fixed asset and depreciation schedules, and preparing payroll. Additional procedures covered include setting up a chart of accounts, summarizing data, generating financial reports and banking transactions.

Credits 3

Prerequisites

As required by college.

Corequisites

As required by college

BUS 246 : COMPUTERIZED ACCOUNTING

This course utilizes the microcomputer in a study of accounting principles and practices. Emphasis is on the preparation and analysis of financial statements, measuring business activities, and making rational business decisions.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[BUS 242](#). Principles of Accounting II

BUS 248 : MANAGERIAL ACCOUNTING

This course is designed to familiarize the student with management concepts and techniques of industrial accounting procedures. Emphasis is placed on cost behavior, contribution approach to decision-making, budgeting, overhead analysis, cost-volume-profit analysis, and cost accounting systems.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[BUS 241: PRINCIPLES OF ACCOUNTING I](#)

BUS 263 : THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS

This course provides an overview of the legal and social environment for business operations with emphasis on contemporary issues and subsequent impact on business. Topics include the Constitution, the Bill of Rights, the legislative process, civil and criminal law, administering agencies, trade regulations, consumer protection, contracts, employment and personal property.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

BUS 271 : BUSINESS STATISTICS I

This is an introductory study of basic statistical concepts applied to economic and business problems. Topics include the collection, classification and presentation of data, statistical description and analysis of data, measures of central tendency and dispersion, elementary probability, sampling, estimation and introduction to hypothesis testing.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Two years of high school Algebra, Intermediate Algebra ([MTH 100](#)), or appropriate score on Math Placement Test

BUS 272 : BUSINESS STATISTICS II

This course is a continuation of [BUS 271](#). Topics include sampling theory, statistical interference, regression and correlation, chi square, analysis of variance, time series index numbers, and decision theory.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[BUS 271: BUSINESS STATISTICS I](#)

BUS 275 : PRINCIPLES OF MANAGEMENT

This course provides a basic study of the principles of management. Topics include planning, organizing, staffing, directing, and controlling with emphasis on practical business applications.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

BUS 276 : HUMAN RESOURCE MANAGEMENT

This course provides an overview of the responsibilities of the supervisor of human resources. Topics include the selection, placement, testing, orientation, training, rating, promotion, and transfer of employees.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 279 : SMALL BUSINESS MANAGEMENT

This course provides an overview of the creation and operation of a small business. Topics include buying a franchise, starting a business, identifying capital resources, understanding markets, managing customer credit, managing accounting systems, budgeting systems, inventory systems, purchasing insurance, and the importance of appropriate legal counsel.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

BUS 285 : PRINCIPLES OF MARKETING

This course provides a general overview of the field of marketing. Topics include marketing strategies, channels of distribution, marketing research, and consumer behavior.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

BUS 296 : BUSINESS INTERNSHIP

This course allows the student to apply knowledge and skills in a real-world work place. Evaluation is based upon a well-developed portfolio, job-site visits by the instructor, the employer's evaluation of the student, and the development and assessment by the student of a learning contract.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Minimum 6 semester hours completed. Minimum GPA 2.0

Carpentry

CAR 111 : CONSTRUCTION BASICS

This course introduces students to the opportunities in and requirements of the construction industry. Topics include economic outlook for construction, employment outlook, job opportunities, training, apprenticeship, entrepreneurship, construction tools, materials, and equipment, job safety and OSHA standards. Upon course completion, students should be able to identify the job market, types of training, knowledge of apprenticeship opportunities, construction tools, materials, equipment, and safety procedures.

Credits 3

Prerequisites

As determined by college.

Corequisites

[CAR 114](#) - Construction Basics Lab

CAR 112 : FLOORS, WALLS, AND SITE PREP

This course introduces the student to site preparation, floor and wall layout, and construction. Topics include methods of site preparation, measurement and leveling tools, framing, layouts, and components of wall and floor framing to include beams, girders, floor joists, subflooring, partitions, bracing, headers, sills, doors and corners. Upon course completion, students will be able to identify various types of wall and floor framing systems and their components, identify building lines, set backs, and demonstrate a working knowledge of leveling applications.

Credits 3

Prerequisites

As determined by college.

Corequisites

[CAR 113](#)

CAR 113 : FLOORS, WALLS, SITE PREP LAB

In this course the student will engage in applications of site preparation, floor and wall layout, and construction. Emphasis is placed on following job safety procedures, the use of required tools and equipment, performing site preparation, laying out and framing a floor system, and laying out, and erecting walls. Students will use various measurement and leveling tools, identify and install beams, girders, floor joists, sub-flooring, and install various wall components such as partitions, bracing, headers, sills, doors and windows, and corners. Upon course completion, students should be able to follow proper safety procedures, identify building lines and set backs, ensure proper site preparation, layout and frame a floor, and layout, frame and erect walls.

Credits 3

Prerequisites

As determined by college

Corequisite Courses

[CAR 112: FLOORS, WALLS, AND SITE PREP](#)

CAR 114 : CONSTRUCTION BASICS LAB

This course provides practical and safe application of hand, portable power, stationary and pneumatic tools, use of building materials, fasteners and adhesives, and job site safety. Emphasis is placed on the safe use of hand, power, and pneumatic tools, proper selection of lumber, plywood, byproducts, nails, bolts, screws, adhesives, fasteners, construction materials, and job safety. Upon course completion, the student should be able to identify hand, power, stationary, and pneumatic tools and demonstrate their safe use; identify and properly select wood and non-wood building products, and properly use nails, fasteners and adhesives.

Credits 3

Prerequisites

As determined by college.

Corequisite Courses

[CAR 111: CONSTRUCTION BASICS](#)

CAR 122 : CONCRETE AND FORMING

This course introduces the student to concrete, its properties and uses, and procedures for designing concrete forms. Topics include making and pouring concrete, constructing concrete forms, reinforcement methods, finishing concrete, and job safety. Upon completion, students should be able to list safety rules for the job site, list what concrete is made of, describe how concrete forms are built, and how concrete is poured, reinforced, and finished.

Credits 3

Prerequisites

As determined by college.

Corequisites

[CAR 123](#)

CAR 123 : CONCRETE AND FORMING LAB

This course provides practical experience in mixing concrete, building forms, using reinforcing materials, pouring and finishing concrete, and demonstrating proper safety techniques at the job site. Emphasis is placed on job site safety, concrete forming, mixing, pouring, finishing and reinforcing. Upon completion, the student should be able to demonstrate job safety, set forms, reinforce, mix, pour and finish concrete correctly.

Credits 3

Prerequisites

As determined by college.

Corequisite Courses

[CAR 122: CONCRETE AND FORMING](#)

CAR 131 : ROOF AND CEILING SYSTEMS

This course focuses on framing ceilings and roofs. Emphasis is placed on the various types of ceiling and roofing frames, rafters, trusses, ceiling joists, roof decking, and roofing materials. Upon completion, students should be able to explain how to frame a roof and ceiling, identify proper installation methods of roofing materials, and describe applicable safety rules.

Credits 3

Prerequisites

As determined by college.

Corequisites

[CAR 133](#) Roof and Ceiling Systems Lab

CAR 132 : INTERIOR AND EXTERIOR FINISH

This course introduces the student to interior and exterior finishing materials and techniques. Topics include interior trim of windows and doors, ceilings, and wall moldings, exterior sidings, trim work, painting and masonry finishes. Upon completion the students should be able to identify, describe the uses of, and install different types of doors, windows and moldings; identify and install the types of exterior sidings and trim, and describe the different types of paint and their proper application.

Credits 3

Prerequisites

As determined by college

CAR 133 : ROOF AND CEILING SYSTEMS LAB

The course provides students with practical experience in roof and ceiling layout, framing, and installation. Upon completion, the student should be able to layout and frame a roof and ceiling, cut and install rafters, and joists, install trusses, cut and apply roof decking and roofing materials, and apply job site safety rules.

Credits 3

Prerequisites

As determined by college.

Corequisites

[CAR 131](#) Roof and Ceiling Systems

CAR 226 : METAL FRAMING

This course introduces the students to metal framing of floors, walls, ceilings and roofs. Emphasis is placed on metal frame construction. Upon completion, students are expected to be able to describe components and proper application of metal framing, properly construct floors, walls, ceilings, and roofs.

Credits 3

Prerequisites

As determined by college

Chemistry

CHM 104 : INTRODUCTION TO CHEMISTRY I

This is a survey course of general chemistry for students who do not intend to major in science or engineering and may not be substituted for CHM 111. Lecture will emphasize the facts, principles, and theories of general chemistry including math operations, matter and energy, atomic structure, symbols and formulas, nomenclature, the periodic table, bonding concepts, equations, reactions, stoichiometry, gas laws, phases of matter, solutions, pH, and equilibrium reactions. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[MTH 098](#) or equivalent mathematics placement score

CHM 105 : INTRODUCTION TO CHEMISTRY II

This is a survey course of organic chemistry and biochemistry for students who do not intend to major in science or engineering. Topics will include basic nomenclature, classification of organic compounds, typical organic reactions, reactions involved in life processes, function of biomolecules, and the handling and disposal of organic compounds. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[CHM 104](#) or [CHM 111](#)

CHM 111 : COLLEGE CHEMISTRY I

This is the first course in a two-semester sequence designed for the science or engineering major who is expected to have a strong background in mathematics. Topics in this course include measurement, nomenclature, stoichiometry, atomic structure, equations and reactions, basic concepts of thermochemistry, chemical and physical properties, bonding, molecular structure, gas laws, kinetic-molecular theory, condensed matter, solutions, colloids, and some descriptive chemistry topics. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[MTH 112](#) or equivalent mathematics placement score

CHM 112 : COLLEGE CHEMISTRY II

This is the second course in a two-semester sequence designed primarily for the science and engineering student who is expected to have a strong background in mathematics. Topics in this course include chemical kinetic, chemical equilibria, acids and bases, ionic equilibria of weak electrolytes, solubility product principle, chemical thermodynamics, electrochemistry, oxidation-reduction, nuclear chemistry, an introduction to organic chemistry and biochemistry, atmospheric chemistry, and selected topics in descriptive chemistry including the metals, nonmetals, semi-metals, coordination compounds, transition compounds, and post-transition compounds. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Grade of C or higher in both CHM III and [MTH 112](#)

CHM 221 : ORGANIC CHEMISTRY I

This is the first course in a two-semester sequence. Topics in this course include nomenclature, structure, physical and chemical properties, synthesis, and typical reactions for aliphatic, alicyclic, and aromatic compounds with special emphasis on reactions mechanisms, spectroscopy, and stereochemistry. Laboratory is required and will include the synthesis and confirmation of representative organic compounds with emphasis on basic techniques.

Credits 4

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[CHM 112: COLLEGE CHEMISTRY II](#)

CHM 222 : ORGANIC CHEMISTRY II

This is the second course in a two-semester sequence. Topics in this course include nomenclature, structure, physical and chemical properties, synthesis, and typical reactions for aliphatic, alicyclic, aromatic, and biological compounds, polymers and their derivatives, with special emphasis on reaction mechanisms, spectroscopy, and stereochemistry. Laboratory is required and will include the synthesis and confirmation representative organic compounds with emphasis on basic techniques.

Credits 4

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[CHM 221: ORGANIC CHEMISTRY I](#)

Child Development

CHD 100 : INTRODUCTION TO EARLY CARE AND EDUCATION OF CHILDREN

This course introduces the child care profession including the six functional areas of the Child Development Associate (CDA) credential. Emphasis is placed on using positive guidance techniques, setting up a classroom and planning a schedule. Upon completion students should be able to create and modify children's environments to meet individual needs, use positive guidance to develop positive relationships with children, and promote children's self-esteem, self-control, and self-motivation.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

CHD 201 : CHILD GROWTH AND DEVELOPMENT PRINCIPLES

This course is a systematic study of child growth and development from conception through early childhood. Emphasis is placed on principles underlying physical, mental, emotional, and social development, and on methods of child study and practical implications. Upon completion, students should be able to use knowledge of how young children differ in their development and approaches to learning to provide opportunities that support the physical, social, emotional, language, cognitive, and aesthetic development of children.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 202 : CHILDREN'S CREATIVE EXPERIENCES

This course focuses on fostering creativity in preschool children and developing a creative attitude in teachers. Topics include selecting and developing creative experiences in language arts, music, science, math, and movement with observation and participation with young children required. Upon completion, students should be able to select and implement creative and age-appropriate experiences for young children.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 203 : CHILDREN'S LITERATURE AND LANGUAGE DEVELOPMENT

This course surveys appropriate literature and language arts designed to enhance young children's speaking, listening pre-reading and writing skills. Emphasis is placed on developmental appropriateness as related to language. Upon completion, students should be able to create, evaluate, and demonstrate activities which support a language-rich environment for young children.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 204 : METHODS AND MATERIALS FOR TEACHING CHILDREN

This course introduces basic methods and materials used in teaching young children. Emphasis is placed on students compiling a professional resource file of activities used for teaching math, language arts, science, and social studies concepts. Upon completion students should be able to demonstrate basic methods of creating learning experiences using appropriate techniques, materials, and realistic expectations.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 205 : PROGRAM PLANNING FOR EDUCATING YOUNG CHILDREN

This course is designed to give students practice in lesson and unit planning, writing behavioral objectives, and evaluating activities taught to young children. Emphasis is placed on identifying basic aspects of cognitive development and how children learn. Upon completions students should be able to plan and implement developmentally appropriate curriculum and instructional practices based on knowledge of individual differences and the curriculum goals and content.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 206 : CHILDREN'S HEALTH AND SAFETY

This course introduces basic health, nutrition, and safety management practices for young children. Emphasis is placed on setting up and maintaining a safe, healthy environment for young children including specific procedures for infants and toddlers and procedures regarding childhood illnesses and communicable diseases. Upon completion, students should be able to prepare a healthy, safe environment, plan nutritious meals and snacks, and recommend referrals if necessary.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 209 : INFANT AND TODDLER EDUCATION PROGRAMS

This course focuses on child development from infancy to thirty months of age with emphasis on planning programs using developmentally- appropriate material. Emphasis is placed on positive ways to support an infant's social, emotional, physical, and intellectual development. Upon completion, students should be able to plan an infant-toddler program and environment that is appropriate and supportive of the families and the children.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 210 : EDUCATING EXCEPTIONAL CHILDREN

This course explores the many different types of exceptionalities found in young children. Topics include speech, language, hearing, and visual impairments; gifted and talented children; mental retardation; emotion, behavioral, and neurological handicaps. Upon completion, students should be able to identify appropriate strategies for working with young exceptional children.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 214 : FAMILIES AND COMMUNITIES IN EARLY CARE AND EDUCATION PROGRAMS

This course provides students with information about working with diverse families and communities. Students will be introduced to family and community settings, the importance of relationships with children, and the pressing needs of today's society. Students will study and practice techniques for developing these important relationships and effective communication skills.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

CHD 215 : SUPERVISED PRACTICAL EXPERIENCE IN CHILD DEVELOPMENT

This course provides a minimum of 90 hours of hands-on, supervised experience in an approved program for young children. Emphasis is placed on performance of daily duties which are assessed by the college instructor and the cooperating teacher. Upon completion, students should be able to demonstrate competency in a child care setting.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CHD 217 : MATH AND SCIENCE FOR YOUNG CHILDREN

This course provides students with information on children's conceptual development and The fundamental basic concepts of both math and science. Students learn various techniques for planning, implementing and evaluating developmentally appropriate activities. Students will also learn about integrated curriculum.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

Computer Science

CIS 113 : SPREADSHEET SOFTWARE APPLICATIONS

This course provides students with hands-on experience using spreadsheet software. Students will develop skills common to most spreadsheet software by developing a wide variety of spreadsheets. Emphasis is on planning, developing, and editing functions associated with spreadsheets.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CIS 120 : GOOGLE IT PROFESSIONAL SUPPORT I— TECHNICAL SUPPORT FUNDAMENTALS

This course is the first of a series intended to prepare students for employment as entry-level IT support specialists. In this course, students will be introduced to the work of information technology. Students will learn about the different facets of information technology, such as computer hardware, the Internet, computer software, troubleshooting and customer service.

Credits 2

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

None

CIS 121 : GOOGLE IT PROFESSIONAL SUPPORT II— COMPUTER NETWORKING

This course is the second in a series intended to prepare students for employment as entry-level IT support specialists. This course covers fundamentals of modern networking technologies and protocols, an overview of the cloud, practical applications and networking troubleshooting.

Credits 2

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

None

CIS 122 : GOOGLE IT PROFESSIONAL SUPPORT III— OPERATING SYSTEMS

This course is the third in a series intended to prepare students for employment as entry-level IT support specialists. This course covers components of an operating system and how to perform critical tasks, such as managing software and users and configuring software.

Credits 2

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

None

CIS 123 : GOOGLE IT PROFESSIONAL SUPPORT IV—SYSTEM ADMINISTRATION AND IT INFRASTRUCTURE

This course is the fourth in a series intended to prepare students for employment as entry-level IT support specialists. This course covers how to maintain reliable computer systems in a multi-user environment, how to manage and configure servers, how to recover IT infrastructure in the event of a disaster, and how to use industry tools to manage computers, user information and user productivity.

Credits 2

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

None

CIS 124 : GOOGLE IT PROFESSIONAL SUPPORT V—IT SECURITY

This course is the fifth in a series intended to prepare students for employment as entry-level IT support specialists. This course covers a wide variety of IT security concepts, tools and best practices. The course includes a background of encryption algorithms, the three A's of information security and network security solutions.

Credits 2

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

None

CIS 146 : COMPUTER APPLICATION

This course is an introduction to computer software applications, including word processing, spreadsheets, database management, and presentation software. This course will prepare students for professional certifications.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

CIS 147 : ADVANCED MICRO APPLICATIONS

This course is a continuation of [CIS 146](#) in which students utilize the advanced features of topics covered in [CIS 146](#). Advanced functions and integration of word processing, spreadsheets, database, and presentation packages among other topics are generally incorporated into the course and are to be applied to situations found in society and business. Upon completion, the student should be able to apply the advanced features of selected software appropriately to typical problems found in society and business. This course will help prepare students for the MOS certification.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by college

CIS 149 : INTRODUCTION TO COMPUTERS

This course is an introduction to computers and their impact on society. The course covers the development of computers, their impact on society, as well as future implications of development of computer and related communication technologies. This course introduces programming and computer operating systems. Upon completion, students will have basic knowledge of computer technology and will be able to perform basic functions with a computer system. The course will help prepare students for the IC 3 certification.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 150 : INTRODUCTION TO COMPUTER LOGIC AND PROGRAMMING

This course includes logic, design and problem solving techniques used by programmers and analysts in addressing and solving common programming and computing problems. The most commonly used techniques of flowcharts, structure charts, and pseudocode will be covered and students will be expected to apply the techniques to designated situations and problems. This is a CORE course.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 151 : GRAPHICS FOR THE WORLD WIDE WEB

This course will provide an overview to the theory, tools, and techniques necessary for creating high-quality graphics using design software tools.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 157 : INTRODUCTION TO APP DEVELOPMENT WITH SWIFT

This introductory one-semester course is designed to help students build a solid foundation in programming fundamentals using Swift as the language. Students get practical experience with the tools, techniques, and concepts needed to build a basic iOS system.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 159 : INTRODUCTION TO GRAPHIC DESIGN FOR APPS

This introductory one-semester course is designed to enable students to integrate graphics for mobile app development. Students receive practical experience with the tools, techniques, and concepts needed to build or incorporate basic graphics.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 162 : ADVANCED NETWORKING

This course exposes students to networking concepts in increased breadth and depth. Advanced topics in networking architecture, operations and configuration are covered, as well as management and troubleshooting of common wired and wireless network devices. Also included is an introduction to network security, current industry standards and best practices and emerging technologies such as unified communications, mobile, cloud and virtualization technologies. Upon successful completion of this course, students will be able to demonstrate the essential knowledge and skills needed to confidently design, configure, manage and troubleshoot wired and wireless networks. This course, in combination with CIS 161 will prepare the student to sit for the CompTIANetwork+ certification exam.

Credits 3

Prerequisites

As required by college.

Corequisites

As required by college

CIS 171 : LINUX I

This course presents fundamental applications in Linux. Included in this course are skills development for OS installation and setup, recompile techniques, system configuration settings, file/folder structures and types, run levels, basic network applications, and scripting. Additionally, the course presents security features from an administrative and user consideration.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college.

Corequisites

As required by college

CIS 172 : LINUX II

This course is a continuation of [CIS 171](#) and includes advanced features of Linux. Included in the course are web applications, integrated network configurations, file transfer, server administration, system controls, IP tables/firewall to secure Linux systems, and strategic user-group applications specific to administrative network control.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college.

Corequisites

As required by college

CIS 199 : NETWORK COMMUNICATIONS

This course is designed to introduce students to basic concepts of computer networks. Emphasis is placed on terminology and technology involved in implementing selected networked systems. The course covers various network models, topologies, communications protocols, transmission media, networking hardware and software, and network troubleshooting. Students gain hands-on experience in basic networking. This course further helps prepare students for certification.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 202 : PYTHON PROGRAMMING

This course is an introduction to the Python programming language. Topics include input and output, decision structures, repetition structures, functions, working with files, strings, object-oriented programming and inheritance. Upon completion, students will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 207 : WEB DEVELOPMENT

At the conclusion of this course, students will be able to use specified markup languages to develop basic Web pages.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 208 : WEB AUTHORIZING SOFTWARE

Students utilize various Web authoring tools to construct and edit Web sites for a variety of applications. Upon completion students will be able to use these tools to develop or enhance Web sites.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 209 : ADVANCED WEB DEVELOPMENT

This is an advanced Web design course emphasizing the use of scripting languages to develop interactive Web sites. Upon completion students will be able to create data driven Web sites. This course helps prepare students for the Certified Internet Webmaster (CIW) Foundations certification.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 211 : PRINCIPLES OF INFORMATION ASSURANCE

This course is designed to introduce students to information security principles. Topics covered in this course will include the need for security, risk management, security technology, cryptography, and physical security. Security policies and legal/ethical issues will also be covered.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 212 : VISUAL BASIC PROGRAMMING

This course emphasizes BASIC programming using a graphical user interface. The course will emphasize graphical user interfaces with additional topics on such topics as advanced file handling techniques, simulation, and other selected areas. Upon completion, the student will be able to demonstrate knowledge of the topics through the completion of programming projects and appropriate tests.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by college

CIS 214 : SECURITY ANALYSIS (PEN TESTING)

This course introduces students to the concept of security analysis, or penetration testing, of information systems. Students will evaluate the security of a computer system or network, assessing security risks from the position of a potential attacker. Emphasis is on identifying security flaws and providing technical solutions.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 220 : APP DEVELOPMENT WITH SWIFT I

This is the first of two courses designed to teach specific skills related to app development using Swift language.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 227 : APP DEVELOPMENT WITH SWIFT II

This course focuses on building specific features for iOS apps. Students apply their knowledge and skills to developing new apps.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 246 : ETHICAL HACKING

This course emphasizes scanning, testing, and securing computer systems. The lab-intensive environment provides opportunities to understand how perimeter defenses work and how hackers are able to compromise information systems. With awareness of hacking strategies, students learn to counteract those attempts in an ethical manner.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 251 : C++ PROGRAMMING

This course is an introduction to the C++ programming language including object oriented programming. Topics include: problem solving and design; control structures; objects and events; user interface construction; and document and program testing.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by college

CIS 263 : COMPUTER MAINTENANCE

This course provides students with hands-on practical experience in installing software, operating systems, troubleshooting, and maintaining systems. The class will help to prepare participants for the A+ Certification sponsored by CompTIA.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 268 : SOFTWARE SUPPORT

This course provides students with hands-on practical experience in installing computer software, operating systems, and troubleshooting. The class will help to prepare participants for the A+ Certification sponsored by CompTIA.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 269 : HARDWARE SUPPORT

This course provides students with hands-on practical experience in installation and troubleshooting computer hardware. The class will help to prepare participants for the A+ Certification sponsored by CompTIA.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 270 : CISCO CCNA I

This course is the first part of a four part curriculum leading to CISCO Certified Network Associate (CCNA) certification. The content of this course is based on requirements from the CISCO Networking Academy certification standards.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 271 : CISCO CCNA II

This course is the second part of a four part curriculum leading to CISCO Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the CISCO Networking Academy certification standards.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 272 : CISCO CCNA III

This course is the third part of a four part curriculum leading to Cisco Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the Cisco Networking Academy certification standards.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 273 : CISCO CCNA IV

This course is the fourth part of a four part curriculum leading to Cisco Certified Network Associate (CCNA) certification. The content of this course is based on current requirements from the Cisco Networking Academy certification standards.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CIS 276 : SERVER ADMINISTRATION

This course introduces network operating system administration. Topics included in this course are network operating system software installation, administration, monitoring, and maintenance; user, group, and computer account management; shared resource management; and server hardware management. Students gain hands-on experience in managing and maintaining a network operating system environment.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 280 : NETWORK SECURITY

This course provides a study of threats to network security and methods of securing a computer network from such threats. Topics included in this course are security risks, intrusion detection, and methods of securing authentication, network access, remote access, Web access, and wired and wireless network communications. Upon completion students will be able to identify security risks and describe appropriate counter measures.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 282 : COMPUTER FORENSICS

This course introduces students to methods of computer forensics and investigations. This course helps prepare students for the International Association of Computer Investigative Specialists (IACIS) certification.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 285 : OBJECT ORIENTED PROGRAMMING

This course is a advanced object-oriented programming course and covers advanced program development techniques and concepts in the context of an object-oriented language, such as C++ or Java. Subject matter includes object-oriented analysis and design, encapsulation, inheritance, polymorphism (operator and function overloading), information hiding, abstract data types, reuse, dynamic memory allocation, and file manipulation. Upon completion, students should be able to develop a hierarchical class structure necessary to the implementation of an object-oriented software system.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[CIS 251: C++ PROGRAMMING](#)

CIS 296 : SPECIAL TOPICS

This course allows study of currently relevant computer science topics, with the course being able to be repeated for credit for each different topic covered. Course content will be determined by the instructor and will vary according to the topic being covered. Upon completion, the student will be able to demonstrate specified skills.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

CIS 299 : DIRECTED STUDIES IN COMPUTER SCIENCE

This course allows independent study under the direction of an instructor. Topics to be included in the course material will be approved by the instructor prior to or at the beginning of the class. Upon completion, the student will be able to demonstrate knowledge of the topics as specified by the instructor.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

Computerized Numerical Control

CNC 158 : DIE FUNDAMENTALS

The purpose of this course is to teach the general fundamentals of stamping. Topics include the dangers of a press operation, the primary components of presses and their functions, the operations of various types of dies, various stamping production methods, and the numerous components used to make up various dies. Upon completion students should be completely familiar with stamping operations and have a fundamental knowledge of how dies are constructed and how they shape material.

Credits 3

Prerequisites

As required by college

CNC 160 : DIE CONSTRUCTION AND TRYOUT

This course is an introduction into constructing and testing dies. Emphasis is placed on safety, machining skills, die construction, and die tryout. Upon completion the students should be able to read a print, construct the die from that print, and test its performance.

Credits 3

Prerequisites

As required by college

CNC 161 : DIE MAINTENANCE AND REPAIR

This course serves as a follow on to [CNC 160](#) Tool and Die Construction and Tryout. Emphasis is placed on safety, inspection, measurement, sharpening, grinding, disassembly, and the reassembly process. Upon completion the students should be able to safely inspect a die and perform the necessary functions to insure it is ready for use.

Credits 3

Prerequisites

As required by college

CNC 232 : BASIC TOOL AND DIE

This course introduces the application and use of jigs, fixtures and stamping dies. Emphasis is placed on design and manufacture of simple jigs, fixtures and stamping dies. Upon completion, students should be able to design and build simple jigs, fixtures and stamping die components.

Credits 4

Prerequisites

As required by college

Construction Management Technology

CMT 102 : CONSTRUCTION BLUEPRINT READING

The purpose of this course is to introduce the student to blueprint reading pertinent to the construction industry. Emphasis will be placed on object visualization, symbols, abbreviations, and terminology. Upon completion of this course the student will be able to visualize in three-dimensions the building from its working drawings, identify the various parts of the building, and understand the specification documents.

Credits 3

Prerequisites

As required by program

CMT 175 : ELECTRICAL & PLUMBING SYSTEMS

The purpose of this course is to introduce the student to the plumbing, electrical, and lighting systems used in buildings. Emphasis will be on design considerations based on plumbing and electrical codes. Upon completion of this course the student will understand the basic principles and hardware requirements in designing plumbing, electrical and lighting systems.

Credits 3

Prerequisites

As required by program

CMT 205 : CONSTRUCTION MANAGEMENT

The purpose of this course is to introduce the student to the principles and practices used in managing the various aspects of the construction process. Emphasis will be placed on pertinent business procedures. Upon completion of this course the student will know how to organize, bid, purchase, account for, plan, and schedule a construction job.

Credits 3

Prerequisites

As required by program

CMT 208 : PROJECT PLANNING AND SCHEDULING

The purpose of this course is to introduce the student to the tools and techniques used to plan, schedule and control a construction project. Students will learn how to prepare Gantt Charts and schedules using the Critical Path Method, Precedence Networks, PERT, GERT and the Linear Scheduling Method. Special emphasis will be placed on using scheduling software. Upon completion, the student will be able to prepare project schedules using various scheduling tools and technology, allocate and level resources, maintain and update a project schedule, and resolve construction delay claims.

Credits 3

Prerequisites

As required by program

CMT 209 : ELECTRICAL & MECHANICAL EQUIPMENT IN BUILDINGS

Topics include load estimation, motor circuits, transformers, fault calculations, and switch gear. Upon completion of this course a student will be able to plan and design an electrical distribution network for an industrial plant.

Credits 4

Prerequisites

As required by program

Cosmetology

COS 111 : INTRODUCTION TO COSMETOLOGY

In this course, students are provided a study of personal and professional image, ethical conduct, sanitation, hair styling, and nail care. Topics include personal and professional development, bacteriology, decontamination, infection control, draping, shampooing, conditioning, hair shaping, and hair styling. Upon completion, students should be able to apply safety rules and regulations and write procedures for skills identified in this course. NDC, CORE

Credits 3

Prerequisites

As required by college.

Corequisites

[COS 112](#) and/or as required by program

COS 112 : INTRODUCTION TO COSMETOLOGY LAB

In this course, students are provided the practical experience for sanitation, shampooing, hair shaping, hairstyling, and nail care. Emphasis is placed on sterilization, shampooing, hair shaping, hairstyling, manicuring, and pedicuring. Upon completion, the student should be able to perform safety and sanitary precautions, shampooing, hair shaping, hairstyling, and nail care procedures. NDC, CORE

Credits 3

Prerequisites

As required by program.

Corequisites

[COS 111](#) and/or as required by program

COS 113 : THEORY OF CHEMICAL SERVICES

This course focuses on the theory of hair and scalp disorders, permanent waving, chemical relaxers, and the composition of the hair. Topics include disorders and analysis of the scalp and hair, permanent waving, chemical hair relaxing, and soft curling. Upon completion, the student should be able to write procedures for permanent waving and chemical relaxing, identify the composition of the hair, safety and sanitary precautions and steps for scalp and hair analysis as well as the disorders. NDC, CORE

Credits 3

Prerequisites

As required by college.

Corequisites

[COS 114](#) and/or as required by program

COS 114 : CHEMICAL SERVICES LAB

In this course, students are provided the practical experience of permanent waving, chemical relaxing, and hair analysis. Topics include permanent waving, chemical relaxing, soft curl, and scalp and hair analysis. Upon completion, the student should be able to analyze the scalp and hair and perform these chemical services using safety and sanitary precautions. NDC, CORE

Credits 3

Prerequisites

As required by program.

Corequisites

[COS 113](#) and/or as required by program

COS 115 : HAIR COLORING THEORY

In this course, students learn the techniques of hair coloring and hair lightening. Emphasis is placed on color application, laws, levels and classifications of color and problem solving. Upon completion, the student should be able to identify all phases of hair coloring and the effects of the hair. NDC, CORE

Credits 3

Prerequisites

As required by program.

Corequisites

[COS 116](#) and/or as required by program

COS 116 : HAIR COLORING LAB

In this course, students apply hair coloring and hair lightening techniques. Topics include consultation, hair analysis, skin test and procedures and applications of all phases of hair coloring and lightening. Upon completion, the student should be able to perform procedures for hair coloring and hair lightening. NDC, CORE

Credits 3

Prerequisites

As required by program.

Corequisites

[COS 115](#) and/or as required by program

COS 117 : BASIC SPA TECHNIQUES

This course is the study of cosmetic products, massage, skin care, and hair removal, as well as identifying the structure and function of various systems of the body. Topics include massage skin analysis, skin structure, disease and disorder, light therapy, facials, facial cosmetics, anatomy, and hair removal. Upon completion, the student should be able to state procedures for analysis, light therapy, facials, hair removal, and identify the structures, functions, and disorders of the skin. NDC, CORE

Credits 3

Prerequisites

As required by program.

Corequisites

[COS 118](#) and/or as required by program

COS 118 : BASIC SPA TECHNIQUES LAB

This course provides practical applications related to the care of the skin and related structure. Emphasis is placed on facial treatments, product application, skin analysis, massage techniques, facial makeup, and hair removal. Upon completion, the student should be able to prepare clients, assemble sanitized materials, follow procedures for product application, recognize skin disorders, demonstrate facial massage movement, cosmetic application, and hair removal using safety and sanitary precautions. NDC, CORE

Credits 3

Prerequisites

As required by program.

Corequisites

[COS 117](#) and/or as required by program

COS 123 : COSMETOLOGY SALON PRACTICES

This course is designed to allow students to practice all phases of cosmetology in a salon setting. Emphasis is placed on professionalism, receptionist duties, hair styling, hair shaping, chemical, and nail and skin services for clients. Upon completion, the student should be able to demonstrate professionalism and the procedures of cosmetology in a salon setting. NDC

Credits 3

Prerequisites

As required by program

COS 127 : ESTHETICS THEORY

This course includes an advanced study of anatomy and physiology relating to skin care, cosmetic chemistry, histology of the skin, and massage and facial treatments. Upon completion, the student should be able to discuss the functions of the skin, effects of chemicals on skin, different types of massage and benefits, and key elements of the basic facial treatment.

Credits 3

Prerequisites

As required by college

COS 134 : ADVANCED ESTHETICS

This course includes an advanced study of anatomy and physiology relating to skin care, cosmetic chemistry, histology of the skin, and massage and facial treatments. Upon completion, the student should be able to discuss the functions of the skin, effects of chemicals on skin, different types of massage and benefits, and key elements of the basic facial treatment.

Credits 3

Prerequisites

As required by college

COS 135 : ADVANCED ESTHETICS APPLICATIONS

This course provides advanced practical applications related to skin care. Principal topics include massage techniques, various facial treatments, proper product application through skin analysis, and introduction to ingredients and treatments used by the esthetician. Upon completion, the student should be able to perform various massage techniques, prescribe proper type of facial treatment and product, and demonstrate facials using any of the eight functions of the facial machine.

Credits 3

Prerequisites

As required by college

COS 143 : SPECIALTY HAIR PREPARATION TECHNIQUES

This course focuses on the theory and practice of hair designing. Topics include creating styles using basic and advanced techniques of back combing, up sweeps and braiding. Upon completion, the student should be able to demonstrate the techniques and procedures for hair designing. NDC

Credits 3

Prerequisites

As required by program

COS 144 : HAIR SHAPING AND DESIGN

In this course, students learn the art and techniques of hair shaping. Topics include hair sectioning, correct use of hair shaping implements, and elevations used to create design lines. Upon completion, the student should be able to demonstrate the techniques and procedures for creating hair designs. NDC

Credits 3

Prerequisites

As required by program

COS 163 : FACIAL TREATMENTS

This course includes all phases of facial treatments in the study of skin care. Topics include treatments for oily, dry, and special skin applications. Upon completion, students will be able to apply facial treatments according to skin type.

Credits 3

Prerequisites

As required by college

COS 164 : FACIAL MACHINE

This is a course designed to provide practical experience using the vapor and facial machine with hydraulic chair. Topics include the uses of electricity and safety practices, machine and apparatus, use of the magnifying lamp, and light therapy. Upon completion, the student will be able to demonstrate an understanding of electrical safety and skills in the use of facial machines.

Credits 3

Prerequisites

As required by college

COS 165 : RELATED SUBJECTS ESTHETICIANS

This course includes subjects related to the methods for removing unwanted hair. This course includes such topics as electrolysis information and definitions, safety methods of permanent hair removal, the practice of removal of superfluous hair, and the use of depilatories. Upon completion of this course, students will be able to apply depilatories and practice all safety precautions.

Credits 3

Prerequisites

As required by college

COS 168 : BACTERIOLOGY AND SANITATION

In this skin care course, emphasis is placed on the decontamination, infection control and safety practiced in the esthetics facility. Topics covered include demonstration of sanitation, sterilization methods and bacterial prevention. Upon completion, the student will be able to properly sanitize facial implements and identify non-reusable items. NDC.

Credits 3

Prerequisites

As required by program

COS 181 : SPECIAL TOPICS

These courses provide for instruction unique to various areas of the cosmetology industry. Emphasis is on meeting individual student needs.

Credits 3

Prerequisites

As required by college

COS 182 : SPECIAL TOPICS

These courses provide for instruction unique to various areas of the cosmetology industry. Emphasis is on meeting individual student needs.

Credits 3

Prerequisites

As required by college

COS 190 : INTERNSHIP IN COSMETOLOGY

This course is designed to provide exposure to cosmetology practices in non-employment situations. Emphasis is on dependability, attitude, professional judgment, and practical cosmetology skills. Upon completion, the student should have gained skills necessary for entry-level employment. NDC

Credits 3

Prerequisites

As required by college

COS 191 : CO-OP

This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Credits 3

Prerequisites

As required by college

Criminal Justice

CRJ 100 : INTRODUCTION TO CRIMINAL JUSTICE

This course surveys the entire criminal justice process from law enforcement to the administration of justice through corrections. It discusses the history and philosophy of the system and introduces various career opportunities.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

CRJ 110 : INTRODUCTION TO LAW ENFORCEMENT

This course examines the history and philosophy of law enforcement, as well as the organization and jurisdiction of local, state, and federal agencies. It includes the duties and functions of law enforcement officers.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

CRJ 116 : POLICE PATROL

This course studies the duties, and responsibilities of the uniformed police patrol. It emphasizes the importance of patrol functions and includes principles, methods, procedures and resources used in police patrol operations.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 117 : COMMUNITY RELATIONS

This course discusses the role of the police officer in achieving and maintaining public support. It includes public information, juvenile relations, public relations, service, and mobilizing community involvement and cooperation.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 140 : CRIMINAL LAW AND PROCEDURE

This course examines both substantive and procedural law. The legal elements of various crimes are discussed, with emphasis placed on the contents of the Alabama Code. Areas of criminal procedure essential to the criminal justice profession are also covered.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 146 : CRIMINAL EVIDENCE

This course considers the origins of the law of evidence and current rules of evidence. Types of evidence, their definitions and uses are covered, as well as the functions of the court regarding evidence.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 150 : INTRODUCTION TO CORRECTIONS

This course provides an introduction to the philosophical and historical foundations of corrections in America. Incarceration and some of its alternatives are considered.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

CRJ 160 : INTRODUCTION TO SECURITY

This course surveys the operation, organization and problems in providing safety and security to business enterprises. Private, retail, and industrial security are covered.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

CRJ 208 : INTRODUCTION TO CRIMINOLOGY

This course delves into the nature and extent of crime in the United States, as well as criminal delinquent behavior and theories of causation. This study includes criminal personalities, principles of prevention, control, and treatment.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

CRJ 209 : JUVENILE DELINQUENCY

This course examines the causes of delinquency. It also reviews programs of prevention, and control of juvenile delinquency as well as the role of the courts.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

CRJ 219 : FIREARMS

This course covers the moral implications, legal provisions, safety precautions, and restrictions governing the use of firearms. The use of sidearms and riot guns with stationary and combat targets is explored.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 227 : HOMICIDE INVESTIGATION

This course covers the principles, techniques and strategies of homicide investigation. Topics emphasized include ballistics, pathology, toxicology, immunology, jurisprudence, and psychiatry.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 230 : CRIMINALISTICS

This course surveys the different techniques of scientific investigation. Emphasis is given to ballistics, photography, fingerprints, DNA, trace evidence, body fluids, casts, and the like.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 238 : CRIME SCENE INVESTIGATION

This course examines the fundamentals of crime scene investigation. Measuring and sketching the scene, photography, evidence collection and preservation, and courtroom procedures are considered.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 280 : INTERNSHIP IN CRIMINAL JUSTICE

This course involves practical experience with a criminal justice agency under faculty supervision. Permission of the instructor is required. This course may be repeated with the approval of the department head.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

CRJ 290 : SELECTED TOPICS—SEMINAR IN CRIMINAL JUSTICE

This course involves reading, research, writing, and discussion of selected subjects to criminal justice. Various contemporary problems in criminal justice are analyzed. This course may be repeated with approval from the department head.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

Diesel Mechanics

DEM 104 : BASIC ENGINES

This course is designed to give the student knowledge of the diesel engine components and auxiliary systems, the proper way to maintain them, and the proper procedures for testing and rebuilding components. Emphasis is placed on safety, theory of operation, inspection, and measuring and rebuilding diesel engines according to factory specifications. Upon completion students should be able to measure, diagnose problems, and repair diesel engines.

Credits 3

Prerequisites

As required by college

DEM 105 : PREVENTATIVE MAINTENANCE

This course provides instruction on how to plan, develop and install equipment surveillance and reliability strategies. Descriptions of various maintenance techniques for specialized preventive programs are discussed and computerized parts and equipment inventories and fleet management systems software are emphasized. Upon completion, students should be able to set up and follow a preventive maintenance schedule as directed by manufacturers.

Credits 3

Prerequisites

As required by college

DEM 123 : PNEUMATICS AND HYDRAULICS

This course provides instruction in the identification and repair of components found in hydraulic and pneumatic systems. Topics include schematics and symbols used in fluid power transmission and the troubleshooting of components in these systems. Upon completion, students should be able to diagnose, adjust, and repair hydraulic and pneumatic system components.

Credits 3

Prerequisites

As required by college

DEM 124 : ELECTRONIC ENGINE SYSTEMS

This course introduces the principles of electronically controlled diesel engines. Emphasis is placed on testing and adjusting diesel engines in accordance with manufacturers' specifications. Upon completion, students should be able to diagnose, test, and calibrate electronically controlled diesel engines.

Credits 3

Prerequisites

As required by college

DEM 125 : HEAVY VEHICLE DRIVE TRAINS

This course introduces operational principles of mechanical medium and heavy duty vehicle transmissions. Topics include multiple counter shafts power takeoffs, slider idler clutches, friction clutches, mechanical transmission power components, and hydraulics. Upon completion, students should be able to diagnose, inspect and repair mechanical transmissions.

Credits 3

Prerequisites

As required by college

DEM 127 : FUEL SYSTEMS

This course is designed to provide practice in troubleshooting, fault code diagnosis, information retrieval, calibration, repair and replacement of fuel injectors, nozzles, and pumps. Emphasis is placed on test equipment, component functions, and theory. Upon completion, students should be able to diagnose, service, and repair fuel systems and governors.

Credits 3

Prerequisites

As required by college

Drafting and Design Technology

DDT 104 : BASIC COMPUTER AIDED DRAFTING AND DESIGN

This course provides an introduction to basic Computer Aided Drafting and Design (CADD) functions and techniques, using 'hands on' applications. Topics include terminology, hardware, basic CADD and operating system functions, file manipulation, and basic CADD software applications in producing softcopy and hardcopy.

Credits 3

Prerequisites

As required by college

DDT 117 : MANUFACTURING PROCESSES

This course in materials and processes includes the principles and methodology of material selection, application, and manufacturing processes. Emphasis is directed to solids to include material characteristics, castings, forging, and die assemblies. Upon completion, students should be able to discuss and understand the significance of materials' properties, structure, basic manufacturing processes, and express and interpret material specifications.

Credits 3

Prerequisites

As required by college

DDT 124 : BASIC TECHNICAL DRAWING

This course covers sections, auxiliary views, and basic space geometry. Emphasis will be placed on the theory as well as the mechanics of applying sections, basic dimensioning, auxiliary views, and basic space geometry.

Credits 3

Prerequisite Courses

[DDT 104: BASIC COMPUTER AIDED DRAFTING AND DESIGN](#)

DDT 144 : BASIC 3D MODELING

This course is an introduction to 3D solid modeling techniques utilizing feature-based, constraint-based parametric design. This course encourages the student to visualize parts in the 3D world and have a "design intent" plan for each part in which they will design. Upon completion of the course students should be able to create basic 3D models and 2D working drawings.

Credits 3

Prerequisites

As required by college

DDT 220 : ADVANCED TECHNICAL DRAWING

This course covers the methods of providing size description and manufacturing information for production drawings. Emphasis will be placed on accepted dimensioning and tolerancing practices including Geometric Dimensioning and Tolerancing for both the Customary English System and the ISO System. Upon completion, students should be able to apply dimensions, tolerances, and notes to drawings to acceptable standards, including Geometric Dimensioning and Tolerancing, and produce drawings using and specifying common threads and various fasteners, including welding methods.

Credits 3

Prerequisite Courses

[DDT 144: BASIC 3D MODELING](#)

[DDT 124: BASIC TECHNICAL DRAWING](#)

DDT 225 : STRUCTURAL STEEL DRAFTING

This course covers the theory and practical applications necessary to understand the basic design and terminology of structural steel components used in light commercial buildings. Emphasis is placed on structural steel techniques, bolted and welding connections, framing plans, sections, fabrication and connection details, and bills of material. Upon completion, students should be able to produce engineering and shop drawings incorporating standards shapes, sizes, and details using the A.I.S.C. Manual and incorporating safety practices.

Credits 3

Prerequisite Courses

[DDT 124: BASIC TECHNICAL DRAWING](#)

DDT 236 : DESIGN PROJECT

This course allows the student to plan, execute, and present results of an individual design project. Emphasis is placed on attainment of skills related to a project agreed upon by the Instructor and student. The student will be able to demonstrate and apply competencies identified and agreed upon between the student and instructor.

Credits 3

Prerequisites

Advisor approval

Economics

ECO 231 : PRINCIPLES OF MACROECONOMICS

This course is an introduction to macroeconomic theory, analysis, and policy applications. Topics include the following: scarcity, demand and supply, national income analysis, major economic theories concerning monetary and fiscal policies as stabilization measures, the banking system and other economic issues or problems including international trade.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

ECO 232 : PRINCIPLES OF MICROECONOMICS

This course is an introduction of the microeconomic theory, analysis, and applications. Topics include scarcity; the theories of consumer behavior, production and cost, markets, output and resource pricing, and international aspects of microeconomics.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

Electrical Technology

ELT 114 : RESIDENTIAL WIRING METHODS I

This course is a study of residential wiring practices and methods, the NEC requirements and residential blueprint interpretations. ELT 114 and ELT 115 may be taken in the place of ELT 116.

Credits 3

Prerequisites

As required by program

ELT 115 : RESIDENTIAL WIRING METHODS II

This course is a study of residential wiring practices and methods, the NEC requirements and residential blueprint interpretations. [ELT 114](#) and ELT 115 may be taken in the place of ELT 116.

Credits 3

Prerequisites

As required by program

ELT 116 : RESIDENTIAL WIRING

This course is a study of residential wiring practices and methods, the NEC requirements and residential blueprint interpretations. ELT 116 may be taken in the place of [ELT 114](#) and [ELT 115](#).

Credits 6

Prerequisites

As required by program

ELT 224 : SECURITY AND ALARM SYSTEMS

This course introduces the basic operation and installation of home and business security and fire alarm systems as well as low voltage (under 30v) systems such as lighting, door chimes and intercom systems. Emphasis is placed on installation of home and business security and fire alarm systems. Upon completion, students should be able to install residential and commercial security systems in accordance with code and directives.

Credits 3

Prerequisites

As required by program

ELT 225 : SMART HOUSE WIRING

This course introduces the newest technology available for Smart House wiring equipment and wiring methods to include control of whole-house electrical equipment and home entertainment produces. Emphasis is placed on specialized skills and tools required for wiring Smart Houses. Upon completion, students should be able to install special devices and automated equipment in a high-technology Smart House.

Credits 3

Prerequisites

As required by college

ELT 244 : CONDUIT BENDING AND INSTALLATION

This course provides students the knowledge to properly bend electrical metallic tubing, rigid galvanized and intermediate metal conduit, and PVC conduit. Emphasis is placed on the theory and practical application of conduit bending methods. Upon completion, students should be able to get measurements, layout, and successfully bend conduit using hand type, mechanical, and hydraulic benders.

Credits 3

Prerequisites

As required by program

Emergency Medical Services

The Emergency Medical Services (EMS) Program, in accordance with the goals and mission of Northeast Alabama Community College, is committed to providing quality education and preparation to those seeking education in Emergency Medical Services.

It is the goal of the EMS education program at NACC to prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Emergency Medical Services (EMS) personnel treat millions of patients annually in the United States. Many of these patients have complicated medical and/or trauma conditions. Paramedics are required to have considerable knowledge, skill, and judgment to treat patients in the out-of-hospital setting. High quality out-of-hospital emergency care is an important part of the United States health care system.

Based on the National EMS Scope of Practice model, the four levels of nationally recognized providers are Emergency Medical Responder (EMR), Emergency Medical Technician (EMT), Advanced Emergency Medical Technician (AEMT) and Paramedic.

Emergency Medical Responder (EMR) renders on-scene emergency care while awaiting additional EMS response. In many communities, EMRs provide care as first responders in the workplace and industry, fire responders and rescue organizations. EMR courses are organized on request. Upon successful course completion and certification by examination through the National Registry of EMTs, candidates may apply for licensure with the Alabama Department of Public Health, Office of EMS. EMR certification and licensure is not required to enter the EMS Program.

Those seeking to enter the EMS program of study have options of earning short term certificates at the EMT and Advanced EMT level, and a certificate at the Paramedic level or an Associate in Applied Science Degree-Emergency Medical Services.

The Emergency Medical Technician's (EMT) scope of practice includes basic, non-invasive interventions to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies. The Emergency Medical Technician level is the minimum licensure level for personnel transporting patients in ambulances.

The Advanced EMT (AEMT) scope of practice includes basic, limited advanced and pharmacological interventions to reduce the morbidity and mortality associated with acute out-of hospital medical and traumatic emergencies. A current Alabama EMT license is required to enter the AEMT program.

Paramedics are the most advanced level of EMS care providers licensed by the state of Alabama. The Paramedic's scope of practice includes basic and advanced life support education and skills focused on the acute management and transportation of the broad range of patients who access the emergency medical system. A current EMT license is required for program admission along with specific academic prerequisite courses.

EMS Program Admission

Requirements:

- Unconditional admission to the College.
- Complete appropriate placement examinations.
- Schedule an advising appointment with an EMS advisor.
- Complete the EMS Program application (obtained at advisor meeting).
- Meet essential functions required for EMS (page 108-109).
- Meet pre-clinical requirements for EMS.
- Meet all additional requirements outlined in the EMS Program Handbook.

In addition to classroom and lab sessions, EMS students are required to complete course appropriate clinical activities at various healthcare and EMS organizations. Prior to clinical participation, students must meet specific agency requirements. These include a physical examination, documentation of vaccinations, satisfactory criminal background check, drug screen, orientation to policy and procedures for each agency, including appropriate dress, hygiene, patient confidentiality, and expectation of professional behaviors.

Successful program completion is met in each EMS course with a minimum letter grade of "B" and satisfactory lab and clinical competencies. A grade of less than a "B" in any EMS course is considered unsuccessful and will not result in certificate or AAS awards, unless retaken and completed with a grade of "B."

Anticipated Additional EMS Program Costs

- Textbooks and learning resources
- Exam and licensure fees
- Professional Liability Insurance
- Clinical uniforms and supplies
- Transportation to and from clinical sites
- Physical Examination, vaccinations
- Drug Screen and Criminal Background Check
- Test Prep, Testing, and Competency Tracking Programs

The Emergency Medical Services (EMS) Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendations of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Emergency Medical Services Program Essential Functions

Students entering and participating in the EMS Program (primary training) must:

Physical Demands

1. have the physical ability necessary to walk, climb, crawl, bend, push, pull, and lift and balance over less than ideal terrain;
2. have good physical stamina and endurance which would not be adversely affected by having to lift, carry, and balance at times, in excess of 125 pounds (250 pounds with assistance);
3. see different color spectrums;
4. have good eye-hand coordination and manual dexterity to manipulate equipment, instrumentation, and medications;

Problem Solving Abilities

5. be able to send and receive verbal messages as well as operate communication equipment appropriately;
6. be able to collect facts to organize data accurately and communicate clearly, both orally and in writing, in the English language at the ninth grade level or higher;
7. be able to differentiate between normal and abnormal findings in human physical conditions using visual, auditory, olfactory, and tactile observations;
8. be able to make good judgment decisions and exhibit problem solving skills under stressful situations;
9. be attentive to detail and aware of standards and rules that govern practice;
10. implement therapies based on mathematical calculations;

Worker Characteristics

11. possess emotional stability to be able to perform duties in life-or-death situations and in potentially dangerous social situations, including responding to calls in districts known to have high crime rates;
12. be able to handle stress and work well as part of a team;
13. be oriented to reality and not be mentally impaired by mind altering substances;
14. not be addicted to drugs or alcohol;
15. be able to work shifts 24 hours in length, if necessary;
16. be able to tolerate being exposed to extremes in the environment including variable aspects of weather, hazardous fumes, and noise;
17. possess eyesight in a minimum of one eye correctable to 20/20 vision and be able to determine directions according to a map. Students who desire to drive an ambulance must possess approximately 180 degrees peripheral vision capacity, must possess a valid Alabama driver's license, and must be able to safely and competently operate a motor vehicle in accordance with state law; and
18. have the ability to follow established criteria even in the absence of direct supervision.

EMS 100 : CARDIOPULMONARY RESUSCITATION I

This course provides students with concepts as related to areas of basic life support to include coronary artery disease, prudent heart living, symptoms of heart attack, adult one-and - two rescuer CPR, first aid for choking, pediatric basic life support, airway adjuncts, EMS system entry access, automated external defibrillation (AED), and special situations for CPR. Upon course completion, students should be able to identify situations requiring action related to heart or breathing conditions and effectively implement appropriate management for each condition. Students successfully completing this course will receive appropriate documentation of course completion.

Credits 1

Prerequisites

As required by program

EMS 101 : CARDIOPULMONARY RESUSCITATION II

This course provides students with a review of concepts learned in EMS-100. In addition, the course provides the student with theory and application of airway adjuncts as utilized with airway obstruction and maintenance as well as respiratory and cardiac arrest. Assessment and management of acute ischemic stroke will also be included. Upon course completion, students should be able to identify situations requiring action related to heart or breathing conditions and effectively implement appropriate management for these conditions. Students successfully completing this course will receive appropriate documentation of course completion.

Credits 1

Prerequisites

[EMS 100](#) or program approval

EMS 103 : FIRST AID/CPR

This course provides a study of basic first aid and cardiopulmonary resuscitation (CPR). Students will be able to perform basic first aid and CPR techniques. Upon completion, the student will be eligible for CPR certification testing. This course does not satisfy the requirements for Nursing, Emergency Medical Services, Medical Assistant, and Allied Health programs.

Credits 1

Prerequisites

As required by program

EMS 105 : EMERGENCY MEDICAL RESPONDER

This course provides theory in emergency procedures as contained in the current National Standards Training Curriculum (NSTC) for the First Responder. The course is an introduction to the emergency medical services system and provides fundamentals for students to improve the quality of emergency care provided as the first person to an emergency scene until emergency medical services arrive. Completion of specific student competencies, as outlined in the current NSTC for the First Responder, is required for successful course completion.

Credits 3

Prerequisites

As required by program

EMS 106 : MEDICAL TERMINOLOGY

This course provides students with a survey of words, terms, and descriptions commonly used in health related professions. The course includes spelling, pronunciation, and meaning of prefixes, suffixes, roots, and terms. Students may have the opportunity to utilize computer assisted instruction for learning various medical terms. Upon course completion, students should have the knowledge to associate a variety of medical terms with their meaning and utilize medical terms to effectively communicate with other health professionals.

Credits 2

Prerequisites

As required by program

EMS 107 : EMERGENCY VEHICLE OPERATOR-AMBULANCE

The Emergency Vehicle Operator Course - Ambulance provides the student with training as contained in the current National Standard Training Curriculum (NSTC) for the Emergency Vehicle Operator Course (EVOC) Ambulance. The course provides the knowledge and skill practice necessary for individuals to learn how to safely operate all types of ambulances. Topics include introduction to the NSTC for ambulance operators; legal aspects of ambulance operation; communication and reporting; roles and responsibilities; ambulance types and operation; ambulance inspection, maintenance, and repair; navigation and route planning; basic maneuvers and normal operating situations; operations in emergency mode and unusual situations, special considerations in safety; and the run. Completion of specific student competencies, utilizing NSTC guidelines, are required for successful completion of this course.

Credits 1

Prerequisites

Must present a valid driver's license, proof of current automobile liability insurance and program approval

Notes

To qualify for licensure status as an ambulance driver in the State of Alabama, students must successfully complete this course and meet additional requirements as required by the Alabama Department of Public Health.

EMS 108 : DIRECTED STUDIES IN EMS I

This course offers independent study or computer assisted instruction under faculty supervision and/or theory in an EMS subject relevant to the student's interest and need. Specific cognitive competencies required by the student are defined in writing at the first class period.

Credits 1

Prerequisites

As required by program

EMS 113 : INFECTION CONTROL FOR HEALTH PROFESSIONS

This course is designed for students planning to enter a health related field of study or public service occupations. The course focuses on the sources of communicable diseases and describes methods for prevention of transmission of bloodborne and airborne pathogens. Topics include prevention; universal precautions (body-substance isolation) and asepsis; immunization; exposure control; disposal; labeling; transmission; exposure determination; post-exposure reporting; and an exposure control plan. The course is taught following current guidelines set forth by the Occupational Safety and Health Administration (OSHA). Upon course completion, students should be able to participate in the clinical setting, identify potential sources of bloodborne and airborne pathogens, and use appropriate universal precautions.

Credits 1

Prerequisites

As required by program

EMS 118 : EMERGENCY MEDICAL TECHNICIAN

This course is required to apply for certification as an Emergency Medical Technician. This course provides students with insights into the theory and application of concepts related to the profession of emergency medical services. Specific topics include: EMS preparatory, airway maintenance, patient assessment, management of trauma patients, management of medical patients, treating infants and children, and various EMS operations. This course is based on the NHTS National Emergency Medical Services Education Standards.

Credits 9

Prerequisites

As required by program.

Corequisites

[EMS 119](#)

EMS 119 : EMERGENCY MEDICAL TECHNICIAN CLINICAL

This course is required to apply for certification as an EMT. This course provides students with clinical education experiences to enhance knowledge and skills learned in the [EMS 118](#), Emergency Medical Technician Theory and Lab. This course helps students prepare for the National Registry Exam. *For students who have not yet taken [EMS 106](#), EMS 119 and [EMS 106](#) can be taken during the same semester.

Credits 1

Prerequisites

[EMS 106](#).

Corequisite Courses

[EMS 118: EMERGENCY MEDICAL TECHNICIAN](#)

EMS 120 : VEHICLE EXTRICATION

This course provides students with theory in the development of concepts related to the removal of persons from damaged vehicles. Topics include gaining access, stabilization, packaging, patient removal, and basic hazardous situations. Upon course completion, students should be able to effectively extricate a person from a wrecked vehicle.

Credits 2

Prerequisites

Program approval

EMS 125 : HIGH ANGLE RESCUE I

This course provides students with theory in the introduction to high angle rescue techniques. Topics include the high angle environment; equipment and protection, care and use of rope and related equipment; knots, rappelling, and ascending techniques; and introduction to rescue techniques. Upon course completion, students should have an understanding in the basic techniques of high angle rescue.

Credits 2

Prerequisites

Program approval

EMS 126 : HIGH ANGLE RESCUE II

This course is a continuation and review of [EMS 125](#) and provides students with theory in rescue techniques utilized in rope rescue. Topics include one person rescue techniques, slope evacuation, high angle lowering, hauling systems, high lines, and evacuation operations. Upon course completion, students should have an understanding of how to approach a high angle rescue, utilizing various rigging techniques.

Credits 2

Prerequisites

[EMS 125](#) or program approval

EMS 155 : ADVANCED EMERGENCY MEDICAL TECHNICIAN

This course is required to apply for certification as an Advanced EMT. This course provides students with insights into the theory and application of concepts related to the Advanced EMT level of emergency medical services. Specific topics include: EMS preparatory, airway maintenance, pharmacology, patient assessment, treating trauma patients, various medical procedures, treating infants and children, and various EMS operations. This course is based on the National Emergency Medical Services Education Standards for the Advanced Emergency Medical Technician. * Students that have not yet completed [EMS 106](#), can taken this with EMS 155 and EMS 156 as a corequisite.

Credits 7

Prerequisites

[EMS 106](#) and AL EMT License.

Corequisites

[EMS 156](#)

EMS 156 : ADVANCED EMERGENCY MEDICAL TECHNICIAN CLINICAL

This course is required to apply for certification as an Advanced EMT. This course provides students with clinical education experiences to enhance knowledge and skills learned in [EMS 155](#), Advanced EMS Theory and Lab. This course helps students prepare for the National Registry Exam.

Credits 2

Prerequisites

AL EMT License.

Corequisite Courses

[EMS 155: ADVANCED EMERGENCY MEDICAL TECHNICIAN](#)

EMS 189 : APPLIED ANATOMY AND PHYSIOLOGY FOR THE PARAMEDIC

This course introduces human anatomy and physiology and includes concepts related to basic chemistry; fluid, electrolyte, and acid-base balance; functions of cells, tissues, organs, and systems; pathophysiology; and associated medical terminology. Emphasis is placed on applying content to signs, symptoms, and treatments; and situations commonly seen by paramedics. Upon course completion, students should be able to demonstrate a basic understanding of the structure and function of the human body.

Credits 4

Prerequisites

As required by program

Notes

EMS 189 or [BIO 201](#) is a prerequisite for the first Paramedic course

EMS 218 : SUPERVISED STUDIES IN EMS

This course offers various topics of interest and need in emergency medical services. The course is conducted and completed under faculty supervision and includes required student cognitive competencies. Upon course completion, students should have a greater understanding of their assigned course topic.

Credits 1

Prerequisites

As required by program

EMS 219 : SUPERVISED STUDIES IN EMS

This course offers various topics of interest and need in emergency medical services. The course is conducted and completed under faculty supervision and includes required student cognitive competencies. Upon course completion, students should have a greater understanding of their assigned course topic.

Credits 1

Prerequisites

As required by program

EMS 234 : DECISION MAKING AND PROBLEM SOLVING IN EMS

This course provides students with concepts relating to problem solving and decision making. Topics include decision making in the emergency and non-emergency setting, group dynamics and group think phenomenon. Upon course completion, students should be able to begin to use critical thinking skills to solve problems and make appropriate decisions.

Credits 3

Prerequisites

As required by program

EMS 240 : PARAMEDIC OPERATIONS

This course focuses on the operational knowledge and skills needed for safe and effective patient care within the paramedic's scope of practice. Content areas include: research, paramedic roles and responsibilities, well-being of the paramedic, illness and injury prevention, medical-legal-ethical issues, therapeutic communications, medical terminology, life span development, ambulance operations, medical incident command, rescue awareness and operations, hazardous materials incidents, crime scene awareness, and Alabama EMS laws and rules. *If a student has not yet taken [EMS 106](#), he or she may take it during the same semester as EMS 240.

Credits 2

Prerequisites

[BIO 201](#), [EMS 106](#),189, and current AL EMT license.

Corequisites

[EMS 241](#), 242, 244, and 257

EMS 241 : PARAMEDIC CARDIOLOGY

This course introduces the cardiovascular system, cardiovascular electrophysiology, and electrocardiographic monitoring. This course further relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for specific cardiovascular conditions. Content areas include: cardiovascular anatomy and physiology, cardiovascular electrophysiology, electrocardiographic monitoring, rhythm analysis, and prehospital 12-lead electrocardiogram monitoring and interpretation, assessment of the cardiovascular patient, pathophysiology of cardiovascular disease and techniques of management including appropriate pharmacologic agents and electrical therapy.

Credits 3

Prerequisites

[BIO 201](#), [EMS 106](#),189, and current AL EMT license.

Corequisites

[EMS 240](#), 242, 244, and 257

EMS 242 : PARAMEDIC PATIENT ASSESSMENT

This course provides the knowledge and skills needed to perform a comprehensive patient assessment, make initial management decisions, and to communicate assessment findings and patient care verbally and in writing. Content areas include: airway management, history taking, techniques of the physical examination, patient assessment, clinical decision making, communications, documentation and assessment based management.

Credits 2

Prerequisites

[BIO 201](#), [EMS 106](#), 189, and current Alabama AEMT license.

Corequisites

[EMS 240](#), 241, 244, and 257

EMS 243 : PARAMEDIC PHARMACOLOGY

This course introduces basic pharmacological agents and concepts with an emphasis on drug classifications and the knowledge and skills required of a paramedic for safe, effective medication administration. Content areas include: general principles of pharmacology and pharmacologic pathophysiology; venous and intraosseous access techniques, the metric and apothecary system; computation of dosage and solution problems, administration of pharmacologic agents; pharmacokinetics and pharmacodynamics, and nasogastric tube placement.

Credits 1

Prerequisites

As required by program

EMS 244 : PARAMEDIC CLINICAL I

This course is directed toward the application of knowledge and skills developed in didactic and skills laboratory experiences to the clinical setting. Theory and skills are applied to a variety of patient situations in the clinical setting, with a focus on patient assessment and management, advanced airway management, electro-therapy, I.V./I.O. initiation and medication administration.

Credits 1

Prerequisites

[BIO 201](#), [EMS 106](#),189, and current AL EMT license.

Corequisites

[EMS 240](#), 241, 242, and 257

EMS 245 : PARAMEDIC MEDICAL EMERGENCIES

This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation treatment plans for specific medical conditions. Content areas include: pulmonology, neurology, gastroenterology, renal/urology, toxicology, hematology, environmental conditions, infectious and communicable diseases, abuse and assault, patients with special challenges, and acute interventions for the chronic care patient.

Credits 3

Prerequisites

[EMS 240](#), 241, 242, 244, and 257. Current AL EMT license.

Corequisites

[EMS 246](#), 247, and 248

EMS 246 : PARAMEDIC TRAUMA MANAGEMENT

This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for trauma patients. Content areas include the pathophysiology, assessment, and management of trauma as related to: trauma systems; mechanisms of injury; hemorrhage and shock; soft tissue injuries; burns; and head, facial, spinal, thoracic, abdominal, and musculoskeletal trauma.

Credits 3

Prerequisites

[EMS 240](#), 241, 242, 244, and 257. Current AL EMT license.

Corequisites

[EMS 245](#), 247, and 248

EMS 247 : PARAMEDIC SPECIAL POPULATIONS

This course relates pathophysiology and assessment findings to the formulation of field impressions and implementation of treatment plans for specific medical conditions. Content areas include: endocrinology, allergies and anaphylaxis, behavioral/psychiatric conditions, gynecology, obstetrics, neonatology, pediatrics, and geriatrics. In the clinical setting, theory and skills are applied to a variety of medical situations across the life span of the patient, with a focus on communication with and management of cardiac, acute care, psychiatric/behavioral, obstetrical, newborn, pediatric, geriatric, and acute interventions for chronic care patients, and patients with special challenges.

Credits 2

Prerequisites

[EMS 240](#), 241, 242, 244, and 257. Current AL EMT license.

Corequisites

[EMS 245](#), 246, and 248

EMS 248 : PARAMEDIC CLINICAL II

This course is required to apply for certification as a Paramedic. This course provides students with clinical education experiences to enhance knowledge and skills learned in [EMS 245](#), 246, and 247 and knowledge and proficiency from previous clinical experiences. This course helps prepare students for the National Registry Paramedic Exam. The student will have the opportunity to use the basic and advanced skills of the Paramedic in the clinical setting under the direct supervision of licensed healthcare professionals. Requires licensure at the AEMT level.

Credits 3

Prerequisites

[EMS 240](#), 241, 242, 244, and 257. Current AL EMT license.

Corequisites

[EMS 245](#), 246, and 247

EMS 253 : PARAMEDIC TRANSITION TO THE WORKFORCE

This course is designed to meet additional state and local educational requirements for paramedic practice. Content includes: ACLS, PALS or PEPP, ITLS or PHTLS, prehospital protocols, transfer drugs, and other courses as dictated by local needs or state requirements.

Credits 2

Prerequisites

[EMS 245](#), 246, 247, and 248. Current AL EMT license. [EMS 189](#) or [BIO 201](#) & 202.

Corequisites

[EMS 254](#), 255, and 256

EMS 254 : ADVANCED COMPETENCIES FOR PARAMEDIC

This course is designed to assist students in preparation for the paramedic licensure examination. Emphasis is placed on validation of knowledge and skills through didactic review, skills lab performance, and/or computer simulation and practice testing. Upon course completion, students should be sufficiently prepared to sit for the paramedic licensure examination.

Credits 2

Prerequisites

[EMS 245](#), 246, 247, and 248. Current AL EMT license. [EMS 189](#) or [BIO 201](#) and 202.

Corequisites

[EMS 253](#), 255, and 256

EMS 255 : PARAMEDIC FIELD PRECEPTORSHIP

This course is required to apply for certification as a paramedic. This course provides students with field experiences to enhance knowledge and skills learned throughout the paramedic program. This course helps prepare students for the National Registry Paramedic Exam. Students will utilize paramedic skills in a field setting under the direct supervision of a licensed paramedic. Requires licensure at the EMT level and completion of [EMS 240](#), 241, 242, 243, 244, 245, 246, 247, and 248.

Credits 5

Prerequisites

[EMS 245](#), 246, 247, and 248. Current AL EMT license. [EMS 189](#) or [BIO 201](#) and 202.

Corequisites

[EMS 253](#), 254, and 256

EMS 256 : PARAMEDIC TEAM LEADERSHIP

This course is designed to evaluate students' ability to integrate didactic, psychomotor skills, clinical, and field internship instruction to serve as a competent entry-level paramedic. This final evaluative (rather than instructional) course focuses on students' professional attributes and integrative competence in clinical decision-making and team leadership in the prehospital setting. Upon course completion, students should have demonstrated adequate knowledge and skills, professional attitudes and attributes, clinical decision-making and team leadership abilities to effectively function as a competent entry-level paramedic.

Credits 1

Prerequisites

[EMS 245](#), 246, 247, and 248. Current AL EMT license. [EMS 189](#) or [BIO 201](#) and 202.

Corequisites

[EMS 253](#), 254, and 255

EMS 257 : PARAMEDIC APPLIED PHARMACOLOGY

This course introduces basic and advanced pharmacological agents and concepts, with an emphasis on drug classifications and the knowledge and skills required for safe, effective medication administration. Medication pharmacokinetics and pharmacodynamics will be evaluated for most medicines used in the pre-hospital settings. Students will also learn how to establish various routes of medication administration and procedures for administering medications via these routes. Students will also demonstrate mathematic computations for various drug and solution dose administration problems.

Credits 2

Prerequisites

[BIO 201](#), [EMS 106](#), 189, and Current AL EMT license

EMS 266 : ADVANCED CV LIFE SUPPORT

The Advanced Cardiovascular Life Support Provider Course provides students with concepts related to advanced cardiovascular life support. Content areas include acute myocardial infarction, stroke, cardiovascular pharmacology, electrophysiology, various rhythm disturbances, and techniques of management of cardiovascular emergencies. The course is taught in accordance with national standards and requires specific student competencies. Students successfully completing this course will receive appropriate documentation of course completion.

Credits 1

Prerequisites

[EMS 245](#), 246, 247, and 248. Current AL EMT license

EMS 267 : INTERNATIONAL TRAUMA LIFE SUPPORT

This course provides students with theory and demonstration in advanced trauma care and management. Content areas include mechanism of trauma, trauma assessment, airway -breathing-circulation management, trauma to various portions of the body, multiple system trauma, and load-and-go situations. The course is taught in accordance with national standards and requires specific student competencies. Students successfully completing this course will receive appropriate documentation of course completion.

Credits 1

Prerequisites

As required by program

EMS 269 : PEDIATRIC MEDICAL LIFE SUPPORT

This course provides students with theory and simulated case studies in pediatric care. Content areas include recognition of pediatric pre-arrest conditions; shock; basic life support; oxygenation and airway control; newborn resuscitation; essentials in pediatric resuscitation; dysrhythmia recognition and management; vascular access; and use of medications. This course is taught in accordance with national standards and requires specific student competencies. Students successfully completing this course will receive appropriate documentation of course completion.

Credits 1

Prerequisites

[EMS 245](#), 246, 247, and 248. Current AL EMT license

EMS 273 : EKG INTERPRETATION

This course is designed for students in health related professions desiring the knowledge to interpret singular lead electrocardiograms. The course provides concepts in the interpretation of electrocardiograms to include an overview of the electrical conduction of the heart as well as the identification of all categories of dysrhythmias. Upon course completion, students should be able to identify various types of cardiac rhythms.

Credits 2

Prerequisites

As required by program

Engineering

EGR 101 : ENGINEERING FOUNDATIONS

This course introduces students to engineering as a profession, basic engineering skills, and the design process. The course includes components to develop teaming and oral and written communication skills. The course also provides an introduction to computer tools used by engineers (e.g., spreadsheet, word processing, presentation software, Internet).

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[MTH 100](#)

Notes

Students transferring to a four-year institution will need to take MTH 113.

Engineering Technology

CET 214 : HYDRAULICS

This course introduces fluid mechanics with primary emphasis on water and sewer. Topics include water at rest, open channel flow, drainage area calculations, and sanitary and storm system design. Upon completion, student will be able to design a storm water system.

Credits 3

Theory Hours 3

Lab Hours 0

Prerequisites

As determined by college

ENT 106 : PRINCIPLES OF ENGINEERING TECHNOLOGY

This course provides students with principles of Engineering Technology. Topics include fluid power, control systems, materials, manufacturing processes, statics, kinematics, and statistics. Upon completion of this course, the student will possess a clear understanding of basic engineering technology principles.

Credits 3

Prerequisites

As required by program

ENT 140 : APPLIED STATICS

This course is concerned with the analysis of loads (force and torque, or "moment") on physical systems in static equilibrium. Upon completion of this course, the student should be able to identify forces, make free body diagrams, and calculate moments of inertia as well as stress and strain in a static system.

Credits 3

Prerequisites

[MTH 113](#) or higher

ENT 220 : PROCESS TECHNOLOGY SYSTEMS

This course is a study of the interrelations of process equipment and process systems. Students will be able to arrange process equipment into systems; describe the purpose and function of specific process systems, explain how factors affecting process systems are controlled under normal conditions, and recognize abnormal process conditions. Students are also introduced to the concept of system process control manufacturing plant process economics.

Credits 3

Prerequisites

As required by program

ENT 221 : INDUSTRIAL QUALITY AND PRODUCTIVITY

This course provides an overview of various quality and productivity management methods and their application to the workplace. Included is a discussion of the history of TQM, problem solving tools, Lean Manufacturing, Six Sigma, and ISO 9000.

Credits 3

Prerequisites

As required by program

ENT 222 : INTRODUCTION TO PROJECT MANAGEMENT

This course is an introduction to project management tools and techniques used to schedule and track a major project. Critical Path Method of scheduling will be used in Gantt chart scheduling. Students will learn techniques of scheduling, communication, assigning resources, and tracking progress. The latest scheduling software will be used to enable them to implement successful project management.

Credits 3

Prerequisites

As required by program

ENT 223 : MATERIALS SELECTION

This course provides theory in the evaluation and selection of materials for the Engineering Technician. Topics include mechanical properties, strength properties, thermal properties, electrical properties, chemical compatibility, and criteria for selection and evaluation of various materials. Upon completion of this class the student will be able to select appropriate materials for various applications.

Credits 3

Prerequisites

As required by program

ENT 240 : APPLIED STRENGTH OF MATERIALS

This course teaches methods of calculating stresses in structural members, such as beams, columns and shafts. Upon completion of this course, the student should be able to design shafts, beams, and columns for simple force systems.

Credits 3

ENT 242 : ADVANCED STUDIES IN ENGINEERING TECHNOLOGY

This course allows students to study topics in depth and apply skills and knowledge to practical situations relevant to engineering technology.

Credits 3

Prerequisites

As required by program

ENT 243 : COOPERATIVE EDUCATION

This course provides students work experience with a college-approved employer in an area directly related to the student's program of study. Emphasis is placed on integrating classroom experiences with work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Credits 3

Prerequisites

As required by program

English

ENG 099 : INTRODUCTION TO COLLEGE WRITING

ENG 099, Introduction to College Writing, is a co-requisite English course paired with ENG 101. Emphasis is placed on providing students with additional academic and non-cognitive support with the goal of success in the students' paired ENG 101 class. The material covered or practiced in the ENG 099 course is complementary to and supportive of material taught in ENG 101 and the needs of the ENG 099 students.

Credits 1

Prerequisites

For a cohort of students who meet certain criteria, [ENG 099](#) will be taught as a co-requisite paired course with [ENG 101](#). Students eligible for this accelerated co-requisite option will be those who score a 4 on the WritePlacer (Accuplacer) exam or a 17 on the ACT

ENG 100 : VOCATIONAL TECHNICAL ENGLISH

This course is designed to enhance reading and writing skills for the workplace. Emphasis is placed on technical reading, job-related vocabulary, sentence writing, punctuation, and spelling with substantial focus on occupational performance requirements. Upon completion, students should be able to identify main ideas with supporting details and produce mechanically correct short writing appropriate to the workplace.

Credits 3

Prerequisites

Satisfactory placement score

ENG 101 : ENGLISH COMPOSITION

This course provides instruction and practice in the writing of at least four extended compositions and the development of rhetorical strategies, analytical and critical reading skills, and basic reference and documentation skills in the composition process. English Composition I may include instruction and practice in library usage and information literacy.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

ENG 102 : ENGLISH COMPOSITION II

English Composition II provides continued instruction and practice in the writing of at least four extended compositions or equivalent assignments of which at least one is a research project using outside sources and/or references effectively and legally. Additionally, English Composition II provides instruction in the development of analytical and critical reading skills in the composition process. English Composition II may include instruction and practice in library usage and information literacy.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

ENG 246 : CREATIVE WRITING I

This course provides instruction and practice in the writing of critical analysis of imaginative forms of literature. Emphasis is placed on originality in the creative writing process, and this course may include instruction on publishing. Students will compose a significant body of imaginative literature, which may be read by or to the class.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[ENG 102](#) or permission of the instructor

ENG 247 : CREATIVE WRITING II

A continuation of [ENG 246](#), this course provides instruction and practice in the writing and critiquing of imaginative forms of literature. Emphasis is placed on originality in the creative writing process, and this course may include instruction on publishing. Students will compose a significant body of imaginative literature, which may be read by or to the class.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[ENG 246](#) or permission of the instructor

ENG 251 : AMERICAN LITERATURE I

This course is a survey of American literature from its beginnings to the mid-nineteenth century. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[ENG 102](#) or equivalent

ENG 252 : AMERICAN LITERATURE II

This course is a survey of American literature from the mid-nineteenth century to the present. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[ENG 102](#) or equivalent

ENG 261 : ENGLISH LITERATURE I

This course is a survey of English/British literature from its inception to the end of the eighteenth century. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[ENG 102](#) or equivalent

ENG 262 : ENGLISH LITERATURE II

This course is a survey of English/British literature from the late eighteenth century to the present. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[ENG 102](#) or equivalent

ENG 271 : WORLD LITERATURE I

This course is a survey of world literature from its inception to the mid-seventeenth century. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[ENG 102](#) or equivalent

ENG 272 : WORLD LITERATURE II

This course is a survey of world literature from the mid-seventeenth century to the present. Emphasis is placed on representative works and writers of this period and on the literary, cultural, historical, and philosophical forces that shaped these works and that are reflected in them.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[ENG 102](#) or equivalent

ENG 299 : DIRECTED STUDIES IN LANGUAGE AND LITERATURE

This course, which may be repeated for credit so long as the topics differ, provides the student the opportunity to study an English language or literary topic chosen by the student in consultation with the instructor. Emphasis is placed on the student's investigating the topic and reporting the results of the investigation. The student will demonstrate knowledge of the topic through either a written or an oral presentation.

Credits 1-3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Permission of the instructor

English and Reading

ENR 098 : WRITING AND READING FOR COLLEGE

ENR 098 Writing and Reading for College integrates reading and writing skills students need to comprehend and interact with college-level texts and to produce original college-level writing. Reading skills will center on processes for literal and critical comprehension, as well as the development of vocabulary skills. Writing skills will focus on using an effective writing process including generating ideas, drafting, organizing, revising, and editing to produce competent essays using standard written English. This course will combine the critical reading skills from developmental reading classes with the writing skills from developmental writing classes into one integrated course. This course may include a one-hour lab component.

Credits 4

Prerequisites

ACCUPLACE SCORE OF 3 OR BELOW

Fire Science

FSC 101 : INTRODUCTION TO THE FIRE SERVICE

This course teaches the many functions of the fire service, its importance and origins. It is designed to acquaint the student with the philosophy and history of the fire service and fire protection, the exacting loss of life and property, and the organization and function of public and private fire protection agencies. Emphasis is placed on the organization and function of federal, state, county, city, and private fire protection.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

FSC 161 : HAZARDOUS MATERIALS AWARENESS AND OPERATIONS

This course is for emergency response personnel who may be first on the scene of a hazardous materials emergency. First responders at the awareness level are expected to recognize the presence of hazardous materials, protect themselves, secure the area, and call for trained personnel. At the operational level, the first responder uses the knowledge gained from the awareness level to act in a defensive posture to protect people, the environment, or property from the effects of an unplanned hazardous materials release. This course meets the requirements of the mandatory Awareness/Operational training in hazardous materials required by Title III - Emergency Planning and Community Right-to-Know Act of 1986 and NFPA 472, Standard on Professional Competence of Responders to Hazardous Materials Incidents current edition.

Credits 3

Prerequisites

As required by program

FSC 201 : FIRE INSTRUCTOR I

A course that trains participants to teach a class from a prepared lesson plan. This course introduces the student to the concept of utilizing training aids to enhance his/her presentation, how to properly select these training aids, and how to use the training aid selected. Subject areas for this course include: Communication, Concepts of Learning, Methods of Teaching, Organizing the Class, Performance Evaluations, Testing and Evaluations, The Lesson Plan, Teaching Techniques, and the Use of Instructional Materials. The student will give several presentations during the week, all leading to the final fifteen minute graded presentation on the final day of class.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

FSC 202 : FIRE INSTRUCTOR II

This course provides the Fire Instructor I with the next level of understanding for the training of personnel. This course trains the participants to perform job and task analysis, develop goals and objectives, and develop a lesson plan along with the coordinating training aids, and student tests and evaluation. During the course, the students are divided into groups, each of which is responsible for the development of a lesson plan to be presented to the class on the final day.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

FSC 230 : RESCUE TECHNICIAN: ROPE

Firefighter I or documented proof of Hazardous Materials Awareness & Operational training, Introduction to Technical Rescue, completion of EMT Basic course. This course in rope rescue techniques includes a classroom review of equipment, knots and rope safety. Instruction events include: establishing need for rope rescue; uses and limitations of equipment; knot craft; safety aspects; anchoring systems; rescue rappelling; third man rescue; lowering systems and other aspects of rope rescue.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Certified Volunteer Firefighter or Certified

FSC 231 : RESCUE TECHNICIAN: CONFINED SPACE

Firefighter I or documented proof of Hazardous Materials Awareness & Operational training, Introduction to Technical Rescue, completion of EMT Basic course. This course is designed for both fire department personnel and private industry, this course provides responders with a comprehensive understanding of accidents involving a confined space. It teaches the responder how to recognize the hazard, access the victim, stabilize the victim and the proper procedures for retrieval. Practical and classroom sessions focus on the three primary hazards associated with confined space rescue: physical, atmospheric, and physiological. Realistic training evolutions using the latest in equipment and techniques ensure student retention of this material.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Certified Volunteer Firefighter or Certified

FSC 232 : RESCUE TECHNICIAN: TRENCH

Firefighter I or documented proof of Hazardous Materials Awareness & Operational training, Introduction to Technical Rescue, completion of EMT Basic course. A course designed to offer a combination of classroom and practical evolutions that allow the student to learn proper techniques to make open trenches and excavations safe for victim access and removal. The class is made realistic by actual sheeting and shoring operations of "unsafe" trenches, by using shoring equipment, and practice in developing skills in lifting practices within the trench environment.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Certified Volunteer Firefighter or Certified

FSC 233 : RESCUE TECHNICIAN: STRUCTURAL COLLAPSE

Firefighter I or documented proof of Hazardous Materials Awareness & Operational training, Introduction to Technical Rescue, completion of EMT Basic course. This course is designed to comply with NFPA 1006, Standard for Rescue Technician Professional Qualifications. It is an intense course which addresses heavy construction collapse and emphasizes the following discipline areas: breaching and breaking, lifting and moving, interior shoring, exterior shoring, and cutting and burning.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Certified Volunteer Firefighter or Certified

FSC 234 : RESCUE TECHNICIAN: SURFACE WATER

Firefighter I or documented proof of Hazardous Materials Awareness & Operational training, Introduction to Technical Rescue, completion of EMT Basic course. This course combines classroom and field instruction that includes, but is not limited to: water hydrology, preplanning water sites, safety, self-rescue, boat operations, in-water/shore-based rescues, rope techniques, highline rescues, and command of water incidents. Emphasis is placed on rope techniques and knots, and experience with both is highly recommended, but not required.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Certified Volunteer Firefighter or Certified

FSC 237 : RESCUE TECHNICIAN: VEHICLE AND MACHINERY EXTRICATION

Firefighter I or documented proof of Hazardous Materials Awareness & Operational training, Introduction to Technical Rescue, completion of EMT Basic course. This course is designed to offer a combination of classroom and practical evolutions that allow the student to learn proper techniques to plan for a vehicle/machinery incident, establish fire protection, stabilize a vehicle or machine, isolate potential harmful energy sources, determine vehicle access and egress points, create access and egress openings for rescue, disentangle victims, remove a packaged victim to a designated safe area, and terminate a vehicle/machinery incident.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Certified Volunteer Firefighter or Certified

FSC 281 : FIRE APPARATUS OPERATOR: PUMPER

This course is designed for the firefighter who wishes to advance to the next level of his/her profession. This course consists of six modules: Preventive Maintenance, Test and Inspections, Driving/ Operating, Water Supply, Sprinklers and Standpipes, and Operations. Requires valid driver's license, 16 hours of apparatus training that must be completed and documented by the student's fire department prior to attending class.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Certified Firefighter I or Certified Volunteer Firefighter

FSC 291 : FIRE OFFICER I

The Fire Officer I curriculum identifies the requirements necessary to perform the duties of a first line supervisor. This course introduces the student to the basic concepts of management and supervision by concentration on such topics as: Organizational Structure, Communication Skills, Human Resource Management, Public Relations, Planning, Emergency Service Delivery, and Safety.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

FSC 292 : FIRE OFFICER II

This course is structured for the fire officer who is ready to assume a leadership role by moving into the middle management level of his/ her department. This course gives the officer more knowledge of management and supervision so that he/she can make basic evaluations of employee relations and assume a proactive role in their department. This course expands on the knowledge base attained in Fire Officer I by revisiting some of the same subjects and adding additional material. Some new subject areas include information management, government structure, and department budget planning and management.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

FSC 293 : FIRE OFFICER III

This course is specialized for the chief officer who is ready to advance into the upper management level of his/her department. This course consists of subjects designed to give the officer more knowledge of management and administration so that he/she can make basic evaluations of employee relations and assume a more proactive role in their department. This is a projects-based class.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

FSC 294 : FIRE OFFICER IV

This course meets executive management level needs. The course is designed to meet the elements of NFPA 1021, Chapter 7. Fire Officer IV will emphasize management of fire protection services to include human resource management, multi-agency emergency service delivery with horizontal/vertical communication requirements and risk management. There will be group interactive exercises, which will reinforce class lectures.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

FSC 295 : FIRE DEPARTMENT SAFETY OFFICER

The purpose of this course is to provide training for fire officers and firefighters on the role and responsibilities of the Incident Safety Officer, and to allow participants to practice some of the key skills needed for competency as an Incident Safety Officer. This training program is for Fire Officers who could be asked to assume the duties of the Incident Safety Officer either as a staff assignment or an on-scene appointment. The program is also appropriate for firefighters who will be working on-scene with the Incident Safety Officer and must understand and appreciate the scope and duties of the job.

Credits 3

Prerequisites

Certified Fire Officer I

FSC 298 : PUBLIC SAFETY TELECOMMUNICATOR

This is the only course which meets both the professional qualification objectives established by both NFPA 1061 and the Alabama Department of Public Health/Emergency Medical Dispatch. Designed for the entry level dispatcher/telecommunicator, this course will familiarize them with the basic concepts of alarm transmission and emergency dispatch procedure along with learning the skills involved with using the EMDPRS. With the emergency dispatch system, enhanced 9-1-1 centers, and the rapid development of metro dispatch centers, telecommunication training has become critical for all departments regardless of size.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

Geography

GEO 100 : WORLD REGIONAL GEOGRAPHY

This course surveys various countries and major regions of the world with respect to location and landscape, world importance, political status, population, type of economy, and its external and internal organization problems and potentials.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

Health Education

HED 224 : PERSONAL AND COMMUNITY HEALTH

This course covers health problems for the individual and for the community. Areas of study include mental health, family life, physical health, chronic and degenerative diseases, control of communicable diseases, and the understanding of depressants and stimulants. Healthful living habits will be emphasized.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

HED 226 : WELLNESS

This course provides health-related education to those individuals seeking advancement in the area of personal wellness. The course has five major components: (1) fitness and health assessment, (2) physical work capacity, (3) education, (4) reassessment and (5) retesting.

Credits 1-3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

HED 230 : SAFETY AND FIRST AID

HED 230 is divided into two parts. The first part concerns itself with the development of a safety education program within an organization (i.e., school, office, shop, etc.). The second part deals with physical injuries, emergency care, and treatment of those injuries. CPR certification and Standard Red Cross Cards are given upon successful completion of American Red Cross requirements.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

HED 232 : Care and Prevention of Athletic Injuries

This course provides a study of specific athletic injuries, their treatment, and preventive measures.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program.

Health Information Technology

HIT 116 : PHARMACOLOGY FOR HIT

This course is a study of drug classifications. The course focuses on generic and name brand drugs and their use. At the conclusion of the course, the student should be able to apply knowledge regarding certain drugs and their usage in treatment and prevention of disease.

Credits 2

Prerequisites

As required by college

HIT 230 : MEDICAL CODING SYSTEMS I

This course is intended to develop an understanding of coding and classification systems in order to assign valid medical codes. Instruction includes description of classification and nomenclature systems; coding diagnoses and/or procedures; sequencing codes; analyzing actual medical records to identify data elements to be coded; and validating coded clinical information. Student competency includes demonstration of coding principles and applications (manual and/or computer assisted). CORE

Credits 3

Prerequisites

As required by college

HIT 232 : MEDICAL CODING SYSTEMS II

This course is a continuation of Medical Coding Systems I which is intended to develop an understanding of coding and classification systems in order to assign valid medical codes. Instruction includes coding diagnoses and/or procedures; sequencing codes; analyzing actual medical records to identify data elements to be coded; validating coded clinical information. Student competency includes demonstration of coding principles and applications (manual and/or computer assisted). CORE

Credits 3

Prerequisites

As required by college

HIT 283 : MEDICAL CODING PROFESSIONAL PRACTICE

This course provides experience in medical coding of actual charts. The course allows the student to demonstrate basic competencies acquired in previous medical coding course work with on-site, online, and/or on-campus simulations and learning experiences. Student competency includes demonstrated medical coding proficiency.

Credits 2

Prerequisites

As required by college

Health Sciences

HPS 105 : MEDICAL TERMINOLOGY

This course is an application for the language of medicine. Emphasis is placed on terminology associated with health care, spelling, pronunciation, and meanings associated with prefixes, suffixes, and roots as they relate to anatomical body systems. Upon completion of this course, the student should be able to correctly abbreviate medical terms and appropriately use medical terminology in verbal and written communication.

Credits 3

Theory Hours 2

Lab Hours 1

Prerequisites

As required by program.

HPS 111 : COMPUTER APPLICATIONS FOR THE HEALTH SCIENCES

This course introduces computer applications relevant for use in the health sciences. Emphasis is placed on the use of Windows, health-related software, Internet, and basic word processing. Upon completion of this course, the student should demonstrate basic competency in the use of computers.

Credits 1

Prerequisites

As required by program

Heavy Equipment Operator

HEO 100 : INTRODUCTION TO CONSTRUCTION EQUIPMENT

This course provides an overview of the use of heavy equipment in construction. Topics include orientation to the trade, heavy equipment safety, identification of heavy equipment, and preventative maintenance.

Credits 3

Prerequisites

None

HEO 101 : BASIC OPERATIONAL TECHNIQUES

This course provides an overview of the operation of heavy equipment in construction. Topics include Basic Operational Techniques, Utility Tractor operation, and Introduction to Earthmoving.

Credits 3

Prerequisites

None

History

HIS 101 : WESTERN CIVILIZATION I

This survey course examines the social, intellectual, economic, cultural, and political developments which have shaped the modern Western world. It covers the history of the West from its earliest beginnings to the early modern era.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

HIS 102 : WESTERN CIVILIZATION II

This survey course examines the social, intellectual, economic, cultural, and political developments which have shaped the modern Western world. It covers the history of the West from the early modern era to the present.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

HIS 201 : UNITED STATES HISTORY I

This course surveys United States history from the pre-Columbian period to the Civil War era.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

HIS 202 : UNITED STATES HISTORY II

This course surveys United States history from the Civil War era to the Modern era.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Home Economics

HEC 140 : PRINCIPLES OF NUTRITION

This course introduces students to the principles of nutrition and the role and functions of nutrients in man's food. Basic information concerning food selection and nutrition as a factor in health, ecology, and economy is included. Implications of nutrition for children may be stressed.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

Homeland Security

HLS 215 : MASS CASUALTY AND TRIAGE MANAGEMENT

This course addresses and provides overview to the more grave aspects of Homeland Security and First Responder positions and response activities. Specifically if all prevention and preemptive actions in the face of a natural or manmade have failed and mass casualty events occur, it is again the First Responders who step forward and bear the burden of providing care, support, triage, and recovery methods and procedures. Topics in mass casualty and triage manage include responses to: chemical, biological, radiological, nuclear, and explosive devices (CBRNE), floods, wind, fire, transportation (land, sea, air) disasters involving transportation, coordination, prioritization, and management of care for victims, relatives, and surrounding communities. This course is Multi-Prefixed CJR/EMS/FSC/HLS.

Credits 3

Prerequisites

As required by college

Industrial Electronics Technology

ILT 100 : APPLIED ELECTRONIC COMPUTATION

This course is an applied mathematics and algebra course for students in electronics or similar programs. Topics include decimals, fractions, negative numbers, powers and roots, the metric systems, logarithms, applied trigonometry and algebra. Upon completion of this course, a student will be able to perform applied mathematics calculations needed in electronics.

Credits 3

ILT 108 : INTRODUCTION TO INSTRUMENTATION AND PROCESS CONTROL

This course is an introductory study of the control devices and methods used in industry for the control and transmission of information pertaining to process variables. This study includes an introduction to instrumentation and control mathematics. This course also provides instruction in the fundamental concepts of pressure, level, flow, temperature, and analytical.

Credits 3

Prerequisites

[ILT 197](#)

ILT 109 : ELECTRICAL BLUEPRINT READING I

This course will enable the student to obtain a working knowledge of the elements of blueprint reading; the ability to interpret electrical, mechanical, and architectural drawing; and the ability to visualize the entire building structure in relationship to the electrical system.

Credits 3

Prerequisites

As required by program

ILT 117 : PRINCIPLES OF CONSTRUCTION WIRING

This course provides a study of the technical skills required to safely perform electrical wiring installations. Topics include methods of wiring residential, commercial, and industrial locations. Upon completion, students should be able to apply safe wiring skills to residential, commercial and industrial applications.

Credits 3

Prerequisites

As required by program

ILT 118 : CONSTRUCTION WIRING NEC

This course provides a study of the codes that is required to safely perform electrical wiring installations. Emphasis will be placed upon the codes that apply to residential, commercial, and industrial locations. Upon completion, students should be able to apply the codes in the electrical wiring of residential, commercial and industrial applications.

Credits 3

Prerequisites

As required by program

ILT 160 : DC FUNDAMENTALS

This course provides a study of atomic theory, direct current (DC), properties of conductors and insulators, direct current characteristics of series, parallel, and series parallel circuits. Inductors and capacitors are introduced and their effects on DC circuits are examined. Students are prepared to analyze complex DC circuits, solve for unknown circuits variables and to use basic electronic test equipment. This course also provides hands on laboratory exercises to analyze, construct, test, and troubleshoot direct current circuits. Emphasis is placed on the use of scientific calculator and the operation of common test equipment used to analyze and troubleshoot DC and to prove the theories taught during classroom instruction.

Credits 3

Prerequisites

As required by program

Corequisites

[ILT 161](#)

ILT 161 : AC FUNDAMENTALS

This course provides a study of the theory of alternating current (AC). Students are prepared to analyze complex AC circuit configurations with resistor, capacitors, and inductors in series and parallel combinations. Upon completion, students should be able to describe AC circuits and explain the function of AC such as RLC, impedance, phase relationships, and power factor. This course also provides hands on laboratory exercises to analyze alternating current using a variety of circuit configurations with resistors, capacitors, and inductors in series and parallel combinations. Emphasis is placed on the operation of common test equipment used to analyze and troubleshoot AC circuits to prove the theories taught.

Credits 3

Prerequisites

As required by program

Corequisite Courses

[ILT 160: DC FUNDAMENTALS](#)

ILT 162 : SOLID STATE FUNDAMENTALS

This course provides instruction in basic solid state theory beginning with atomic structure and including devices such as diodes, bipolar transistors, field effect transistors, amplifiers, thyristors, operational amplifiers, oscillator and power supply circuits. Emphasis is placed on the practical application of solid-state devices, proper biasing and amplifier circuit analysis and the use of test equipment to diagnose, troubleshoot and repair typical solid-state device circuits. This course also provides the opportunity for students to apply the solid-state principles and theories learned in class in the laboratory setting. Emphasis is placed on the practical application of solid-state devices, proper biasing and amplifier circuit analysis and the use of test equipment to diagnose, troubleshoot and repair typical solid-state.

Credits 3

Prerequisites

[ILT 160](#) & [ILT 161](#)

ILT 163 : DIGITAL FUNDAMENTALS

This course provides instruction on basic logic gates, flip-flops, registers, counters, microprocessor/computer fundamentals, analog to digital conversion, and digital analog conversion. Emphasis is placed on number systems, Boolean algebra, combination logic circuits, sequential logic circuits and typical microprocessor data manipulation and storage. This course also has an embedded lab with exercises designed to develop skills required by industry. Upon completion, students should be able to analyze digital circuits, draw timing diagrams, determine output of combinational and sequential logic circuits, and diagnose and troubleshoot electronic components, as well as demonstrate knowledge of microprocessor and computer circuits.

Credits 3

Prerequisites

[ILT 160](#) & [ILT 161](#)

ILT 164 : CIRCUIT FABRICATION I

This course provides instruction in fabrication of functional circuits and is an introduction to device construction and fabrication. Utilizing discrete components, students will fabricate functional circuits. Topics include soldering, cable construction, coaxial cable connection and termination, component mounting, cases, and chassis, printed circuit board design, layout, fabrication, and repair, as well as soldering techniques, care of tools, wire splicing, wire wrapping, connector maintenance, and related shop safety. Upon completion of this course, students should be able to perform basic circuit and project construction.

Credits 1

Prerequisites

As required by college

ILT 166 : MOTORS AND TRANSFORMERS I

This course covers motor operation, motor types, motor components, motor feeder and branch circuits. Topics include motor protection and motor control circuits. The laboratory enables students to test motors, transformer types, and testing of input and output voltage. Upon completion, students should be able to test motors, transformer types, and testing for input and output voltage.

Credits 3

Prerequisites

[ILT 160](#) & [ILT 161](#)

ILT 180 : SPECIAL TOPICS

This course is designed to allow students an opportunity to study topics of particular interest which require the application of technical knowledge and technical skills. Emphasis is placed on the application of skills and knowledge with practical experiences. Upon completion, students should be able to solve job related problems using technical skills and knowledge.

Credits 3

Prerequisites

As required by program

ILT 192 : CO-OP IN ILT

These courses provide students with relevant work experience in business/industry. Emphasis is placed on production in a work setting. Upon completion, students should be able to identify job responsibilities and to demonstrate skills necessary for entry level employment.

Credits 3

Prerequisites

As required by program

ILT 194 : INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS

This course focuses on the use of PLCs. Topics include operations, programming procedures, fault isolation procedures, and methods of entering, executing, debugging, and changing programs. The laboratory enables students to practice operations, programming procedures, fault isolation procedures, and methods of entering, executing, debugging, and changing programs. Upon completion, students should be able to apply principles of operations and programming of programmable logic controllers.

Credits 3

Prerequisites

[ILT 197](#)

ILT 195 : TROUBLESHOOTING TECHNIQUES I

This course focuses on the systematic approach to solving problems. The laboratory portion emphasizes instrument failures and their interaction with process down-time. Upon completion, students should be able to solve problems on a process simulator or in an actual setting.

Credits 3

Prerequisites

[ILT 197](#)

ILT 197 : MOTOR CONTROLS I

This course covers the use of motor control symbols, magnetic motor starters, running overload protection, push-button stations, sizing of magnetic motor starters and overload protection, and complex ladder diagrams of motor control circuits. Topics include sizing magnetic starters and overload protection, the use of push-button stations, ladder diagrams, and magnetic motor starters in control of electric motors, wye-delta starting, part start winding, resistor starting and electric starting devices. Upon completion, students should be able to understand the operation of motor starters, overload protection, interpret ladder diagrams using push-button stations and understand complex motor control diagrams. This is a CORE course for ELT.

Credits 3

Prerequisites

[ILT 160](#) & [ILT 161](#)

ILT 216 : INDUSTRIAL ROBOTICS

This course covers principles of electro-mechanical devices. Topics include the principles, concepts, and techniques involved in interfacing microcomputers to various electro-mechanical devices to produce geographical movement. Upon completion, students should be able to apply the principles of electro-mechanical devices.

Credits 3

Prerequisites

As required by program

Corequisites

[ILT 217](#)

ILT 217 : INDUSTRIAL ROBOTICS LAB

This lab covers the principles, concepts, and techniques involved in interfacing microcomputers to various electromechanical devices to produce geographical movement. Upon completion students should be able to apply the principles of electro-mechanical devices.

Credits 2

Prerequisites

As required by program

Corequisite Courses

[ILT 216: INDUSTRIAL ROBOTICS](#)

ILT 231 : NATIONAL ELECTRIC CODE

This course introduces students to the National Electric Code. Emphasis is placed on locating and interpreting needed information within the NEC manual. Upon completion of this course, the student should be able to locate code requirements for a specific electrical installation.

Credits 3

Prerequisites

As required by program

ILT 238 : NETWORK CABLE - FIBER OPTIC

This course involves presentations, discussions and live simulations of work related experiences involved in data, voice, and video network infrastructure. Students learn to terminate, test, troubleshoot, and install various fiber optic cabling systems. This course helps students prepare for certifications as certified Network Cabling Specialists.

Credits 2

Prerequisites

As required by program

ILT 276 : ELEMENTS OF INDUSTRIAL CONTROL II

This course includes the advanced principals of PLC's including hardware, programming, variable speed drives, and troubleshooting. Emphasis is placed on developing advanced working programs, and troubleshooting hardware and software communication problems. Upon completion, students should be able to demonstrate their ability in developing programs and troubleshooting the system.

Credits 3

Prerequisite Courses

[ILT 194: INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS](#)

Corequisites

[ILT 277](#)

ILT 277 : ELEMENTS OF INDUSTRIAL CONTROL II LAB

This course includes the advanced principals of PLC's including hardware, programming, variable speed drives, and troubleshooting. Emphasis is placed on developing advanced working programs, and troubleshooting hardware and software communication problems. Upon completion, students should be able to demonstrate their ability in developing programs and troubleshooting the system.

Credits 2

Prerequisite Courses

[ILT 194: INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS](#)

Corequisite Courses

[ILT 276: ELEMENTS OF INDUSTRIAL CONTROL II](#)

ILT 280 : SPECIAL TOPICS

This course is designed to allow students an opportunity to study directly-related topics of particular interest which require the application of technical knowledge and technical skills. Emphasis is placed on the application of skills and knowledge with practical experiences. Upon completion, students should be able to solve job related problems using technical skills and knowledge.

Credits 3

Prerequisites

As required by program

ILT 291 : COOPERATIVE EDUCATION

This course provides students work experience with a college-approved employer in an area directly related to the student's program of study. Emphasis is placed on integrating classroom experiences with work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Credits 3

Prerequisites

As required by program

ILT 293 : COOPERATIVE EDUCATION

This course provides students work experience with a college-approved employer in an area directly related to the student's program of study. Emphasis is placed on integrating classroom experiences with work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Credits 3

Prerequisites

As required by program

Industrial Maintenance Technology

INT 107 : FUNDAMENTALS OF ELECTRICITY I

This course provides students with knowledge of fundamentals of electricity commonly associated with an industrial setting. It is a foundational course to enable multicraft industrial maintenance personnel to apply knowledge and skill of electricity in a workplace.

Credits 3

Prerequisites

As required by college

INT 108 : FUNDAMENTALS OF ELECTRICITY II

This course provides students with knowledge of fundamentals of electricity commonly associated with an industrial setting. It is a foundational course to enable multicraft industrial maintenance personnel to apply knowledge and skill of electricity in a workplace.

Credits 3

Prerequisites

As required by college

INT 117 : PRINCIPLES OF INDUSTRIAL MECHANICS

This course provides instruction in basic physics concepts applicable to mechanics of industrial production equipment. Topics include the basic application of mechanical principles with emphasis on power transmission, specific mechanical components, alignment, and tension. Upon completion, students will be able to perform basic troubleshooting, repair and maintenance functions on industrial production equipment. This is a CORE course.

Credits 3

Prerequisites

As required by college

INT 118 : FUNDAMENTALS OF INDUSTRIAL HYDRAULICS AND PNEUMATICS

This course includes the fundamental concepts and theories for the safe operation of hydraulic and pneumatic systems used with industrial production equipment. Topics include the physical concepts, theories, laws, air flow characteristics, actuators, valves, accumulators, symbols, circuitry, filters, servicing safety, and preventive maintenance and the application of these concepts to perform work. Upon completion, students should be able to service and perform preventive maintenance functions on hydraulic and pneumatic systems. This is a CORE course.

Credits 3

Prerequisites

As required by college

INT 119 : PRINCIPLES OF MECHANICAL MEASUREMENT AND TECHNICAL DRAWING

This course provides instruction in the use of precision measuring tools and the interpretation of technical drawings. Topics include the use of calipers, micrometers, steel rules, dial indicators, identifying types of lines and symbols of technical drawings, recognition and interpretation of various types of views, tolerances, and dimensions. Upon course completion, students will be able to use precision measuring tools and interpret technical drawings.

Credits 3

Prerequisites

As required by college

INT 126 : PREVENTIVE MAINTENANCE

This course focuses on the concepts and applications of preventive maintenance. Topics include the introduction of alignment equipment, job safety, tool safety, preventive maintenance concepts, procedures, tasks, and predictive maintenance concepts. Upon course completion, students will demonstrate the ability to apply proper preventive maintenance and explain predictive maintenance concepts. This is a CORE course.

Credits 3

Prerequisites

As required by college

INT 127 : PRINCIPLES OF INDUSTRIAL PUMPS AND PIPING SYSTEMS

This course provides instruction in the fundamental concepts of industrial pumps and piping systems. Topics include pump identification, operation, and installation, maintenance and troubleshooting, and piping systems, and their installation. Upon course completion, students will be able to install, maintain, and troubleshoot industrial pumps and piping systems.

Credits 3

Prerequisites

As required by college

INT 134 : PRINCIPLES OF INDUSTRIAL MAINTENANCE WELDING AND METAL CUTTING TECHNIQUES

This course provides instruction in the fundamentals of acetylene cutting and the basics of welding needed for the maintenance and repair of industrial production equipment. Topics include oxy-fuel safety, choice of cutting equipment, proper cutting angles, equipment setup, cutting plate and pipe, hand tools, types of metal welding machines, rod and welding joints, and common welding passes and beads. Upon course completion, students will demonstrate the ability to perform metal welding and cutting techniques necessary for repairing and maintaining industrial equipment.

Credits 3

Prerequisites

As required by college

Machine Tool Technology

MTT 107 : MACHINING CALCULATIONS I

This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations. This course is aligned with NIMS certification standards.

Credits 3

Prerequisites

As determined by college

MTT 108 : MACHINE HANDBOOK FUNCTIONS I

This course covers the machinist's handbook. Emphasis is placed on formulas, tables, usage and related information. Upon completion, students should be able to use the handbook in the calculation and set up of machine tools. This course is aligned with NIMS certification standards.

Credits 3

Prerequisites

As determined by college

MTT 134 : LATHE OPERATIONS I

This course includes more advanced lathe practices such as set-up procedures, work planning, inner- and outer-diameter operations, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced lathe techniques. MTT 134/135 are suitable substitutes for MTT 129. This course is aligned with NIMS standards.

Credits 3

Prerequisites

As determined by college

MTT 135 : LATHE OPERATIONS I LAB

This course includes more advanced lathe practices such as set-up procedures, work planning, inner- and outer-diameter operations, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced lathe techniques. [MTT 134/135](#) are suitable substitutes for MTT 129. This course is aligned with NIMS standards.

Credits 3

Prerequisites

As determined by college

MTT 137 : MILLING I

This course covers manual milling operations. Emphasis is placed on related safety, types of milling machines and their uses, cutting speed, feed calculations, and set-up and operation procedures. Upon completion, students should be able to apply manual vertical milling techniques to produce machine tool projects. This course is aligned with NIMS certification standards.

Credits 3

Prerequisites

As determined by college

MTT 138 : MILLING I LAB

This course provides basic knowledge of milling machines. Emphasis is placed on types of milling machines and their uses, cutting speed, feed calculations, and set-up procedures. Upon completion, students should be able to apply milling techniques to produce machine tool projects. This course is aligned with NIMS certification criteria.

Credits 3

Prerequisites

As determined by college

MTT 140 : BASIC COMPUTER NUMERICAL CONTROL TURNING PROGRAMMING I

This course covers concepts associated with basic programming of a computer numerical control (CNC) turning center. Topics include basic programming characteristics, motion types, tooling, workholding devices, setup documentation, tool compensations, and formatting. Upon completion, students should be able to write a basic CNC turning program that will be used to produce a part. This course is aligned with NIMS certification standards.

Credits 3

Prerequisites

As determined by college

MTT 141 : BASIC COMPUTER NUMERICAL CONTROL MILLING PROGRAMMING I

This course covers concepts associated with basic programming of a computer numerical control (CNC) milling center. Topics include basic programming characteristics, motion types, tooling, workholding devices, setup documentation, tool compensations, and formatting. Upon completion, students should be able to write a basic CNC milling program that will be used to produce a part. This course is aligned with NIMS certification standards.

Credits 3

Prerequisites

As determined by college

MTT 147 : INTRODUCTION TO MACHINE SHOP I

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, saws, milling machines, bench grinders, and layout instruments. Upon completion, students will be able to perform the basic operations of measuring, layout, drilling, sawing, turning, and milling. This is a CORE course. MTT 100 is a suitable substitute for MTT 147/148.

Credits 3

Prerequisites

As determined by college

MTT 148 : INTRODUCTION TO MACHINE SHOP I LAB

This course provides practical application of the concepts and principles of machining operations learned in [MTT 147](#). Topics include machine shop safety, measuring tools, lathes, saws, milling machines, bench grinders, and layout instruments. Upon completion, students will be able to perform the basic operations of measuring, layout, drilling, sawing, turning, and milling. This is a CORE course. MTT 100 is a suitable substitute for [MTT 147/148](#). This course is aligned with NIMS certification standards.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

MTT 149 : INTRODUCTION TO MACHINE SHOP II

This course provides additional instruction and practice in the use of measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection of work holding devices, speeds, feeds, cutting tools and coolants. Upon completion, students should be able to perform intermediate level procedures of precision grinding, measuring, layout, drilling, sawing, turning, and milling. This is a CORE course and is aligned with NIMS certification standards. MTT 149/150 are suitable substitutes for MTT 103.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

MTT 150 : INTRODUCTION TO MACHINE SHOP II LAB

This course provides additional instruction and practice in the use of measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection of work holding devices, speeds, feeds, cutting tools and coolants. Upon completion, students should be able to perform intermediate level procedures of precision grinding, measuring, layout, drilling, sawing, turning, and milling. This is a CORE course and is aligned with NIMS certification standards. [MTT 149/150](#) are suitable substitutes for MTT 103.

Credits 3

Prerequisites

As determined by college.

Corequisites

As determined by college

MTT 162 : PRECISION GRINDING

This course includes more advanced precision grinder practices such as set-up procedures, work planning, surface grinding, cylindrical grinding, tool and cutter grinding, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced precision grinding techniques. This course is aligned with NIMS standards. MTT 146 is a suitable substitute for MTT 162 & MTT 163.

Credits 3

Prerequisites

As determined by college

MTT 163 : PRECISION GRINDING LAB

This course provides practical application of the concepts and principles of precision grinding learned in MTT 161. Topics include setup procedures, work planning, surface grinding, cylindrical grinding, tool and cutter grinding, and inspection and process improvement. Additional emphasis is placed on safety procedures. Upon completion, students will be able to apply advanced precision grinding techniques. This course is aligned with NIMS standards. MTT 146 is a suitable substitute for [MTT 162](#) & MTT 163.

Credits 3

Prerequisites

As determined by college

MTT 212 : ADVANCED COMPUTER NUMERICAL CONTROL TURNING

This course details the use of canned cycles and subprograms in computer numerical control (CNC) turning programs. Upon completing this course, the student should be able to write CNC turning programs using canned cycles and subprograms.

Credits 3

Prerequisites

As determined by college

MTT 213 : ADVANCED COMPUTER NUMERICAL CONTROL MILLING

This course details the use of canned cycles and subprograms in computer numerical control (CNC) milling programs. Upon completing this course, the student should be able to write CNC milling programs using canned cycles and subprograms.

Credits 3

Prerequisites

As determined by college

MTT 218 : COMPUTER INTEGRATED MANUFACTURING (CIM)

This course is a basic introduction to concepts related to the computer integrated manufacturing (CIM) process. Students cover the design requirements associated with such a cell (center), how a center is integrated into the full system, and the technician's role in the process improvement of not only the cell but the full CIM system. Related safety and inspection and process adjustment are also covered.

Credits 3

Prerequisites

As determined by college

MTT 241 : CNC MILLING LAB I

This course covers basic (3-axis) computer numeric control (CNC) milling machine setup and operating procedures. Upon completion, the student should be able to load a CNC program and setup and operate a 3-axis CNC milling machine to produce a specified part. Related safety, inspection, and process adjustment are also covered.

Credits 3

Prerequisites

As determined by college

MTT 242 : CNC MILLING LAB II

This course covers advanced (including 4-axis) computer numeric control (CNC) milling machine setup and operating procedures. Upon completion, the student should be able to load a CNC program and setup and operate a CNC milling machine (including 4-axis) to produce a specified part. Related safety and inspection and process adjustment are also covered.

Credits 3

Prerequisites

As determined by college

MTT 243 : CNC TURNING LAB I

This course covers basic computer numeric control (CNC) turning machine setup and operating procedures (inner diameter and outer diameter). Upon completion, the student should be able to load a CNC program and setup and operate a CNC turning machine to produce a simple part. Related safety and inspection and process adjustment are also covered.

Credits 3

Prerequisites

As determined by college

MTT 244 : CNC TURNING LAB II

This course covers advanced computer numeric control (CNC) turning machine setup and operating procedures. Upon completion, the student should be able to load a CNC program and setup and operate a CNC turning machine to produce a specified part. Related safety and inspection and process adjustment are also covered.

Credits 3

Prerequisites

As determined by college

Masonry

MAS 111 : MASONRY FUNDAMENTALS

This course is designed as an introduction and orientation to masonry construction, specifically to brick and block construction. Topics include the identification and safe use of tools, equipment, and masonry materials. Upon completion, the students should have a general knowledge of masonry. CORE

Credits 3

Prerequisites

As required by program.

Corequisites

As required by program

MAS 121 : BRICK/BLOCK MASONRY FUNDAMENTALS

This course is designed to provide the student with basic fundamental skills for working with brick and block. Emphasis is placed on the importance of proper work site set up, dry bonding, head and bed joints, leveling, plumbing, and straight edging. Upon completion the students should have requisite skills meeting entry level standards. CORE

Credits 3

Prerequisites

As required by program.

Corequisites

As required by program

MAS 131 : BRICK/BLOCK MASONRY FUNDAMENTALS II

This course is designed to provide the student with a working knowledge of laying bricks and blocks. Emphasis is placed on set up, layout, building corners, and laying to the line. Upon completion the students should have entry level skills in brick and block masonry. CORE

Credits 3

Prerequisites

As required by program.

Corequisites

As required by program

MAS 151 : BRICK/BLOCK MASONRY FUNDAMENTALS III

This course is designed to provide the student with a working knowledge of the various methods of laying bricks and blocks. Emphasis is placed on hanging a speed pole, layout, building corners, and laying to a line. Upon completion the students should have entry level skills in basic bonds, tooling and finishing joints, toothing corners, and cutting masonry units. CORE

Credits 3

Prerequisites

As required by program.

Corequisites

As required by program

MAS 211 : STONE MASONRY

This course provides an introduction to stone and decorative masonry techniques, fireplace construction, and repair and restoration of brick structures. Topics include brick arches, fireplace construction, stone materials, laying techniques, moisture control, wall supports, joints, coping, sample panels, and cultured stone. Upon completion, the student should be able to identify appropriate materials and techniques for the stated topics.

Credits 3

Prerequisites

As required by program.

Corequisites

As required by program

Massage Therapy

MSG 101 : INTRODUCTION TO THERAPEUTIC MASSAGE

The purpose of this course is for students to comprehend foundational information related to the profession of therapeutic massage. Specific topics include: history of therapeutic massage, professional ethics and standards of practice, regulatory agencies and their requirements, client and therapist's professional relationships, communication skills, and an overview of types of therapeutic massage.

Credits 2

Prerequisites

As determined by college

MSG 102 : THERAPEUTIC MASSAGE LAB I

This course provides foundational information related to massage therapy. Students gain knowledge related to purposes, effects, applications, benefits, indications and contraindications for various types of massage therapy. Additionally, students learn procedures and precautions for various types of massage therapies. Specific topics include full body western (Swedish) massage, hot and cold therapies, stretching, and documentation guidelines. Special emphasis is placed on professional behaviors, proper draping, and body mechanics. At the conclusion of this course students will be able to perform various types of full body therapeutic massage techniques and document their activities.

Credits 3

Prerequisites

As determined by college

MSG 103 : ANATOMY AND PHYSIOLOGY

This course provides students with an overview of the basic anatomy and physiology of the human body. Emphasis is placed on the importance of maintaining homeostasis. At the conclusion of this course students will have a basic understanding of the various systems of the body and the effects of massage on these systems. Students will demonstrate this knowledge through cognitive and performance based measurement.

Credits 3

Prerequisites

As determined by college

MSG 104 : MUSCULOSKELETAL AND KINESIOLOGY I

This course introduces students to concepts related to the study of muscle movement. As part of this course students learn the interaction of muscles and various bony landmarks of the skeletal system. Students further learn how to position individuals in preparation for therapeutic massage of various muscle groups. Students will demonstrate this knowledge through cognitive and performance based measurement.

Credits 3

Prerequisites

As determined by college

MSG 105 : THERAPEUTIC MASSAGE SUPERVISED CLINICAL I

In this course, students are required to demonstrate competency in specific therapeutic massage techniques including treatment preparation, use of proper techniques, client progress, and documentation. Students are required to perform a minimum of 45 hours of hands-on client massages.

Credits 2

Prerequisites

As determined by college

MSG 200 : BUSINESS AND MARKETING PLANS

During this course, students are also taught ethical business management and professional development. This course is designed to help students to prepare for ethical decision making in professional practice while assisting in the development of their emerging identities as professional licensed massage therapists. Emphasis is placed on building and retaining clientele, communication skills, customer skills, customer services, continuing education and setting goals. Upon completion, the student should be able to list the types of communication skills, state personal goals, and develop a business and marketing plan.

Credits 1

Prerequisites

As determined by college

MSG 201 : THERAPEUTIC MASSAGE FOR SPECIAL POPULATIONS

In this course, students learn to adapt massage sessions to the needs of special populations such as pregnant women, infants, elderly, and the terminally ill. Topics include technique variations, length of session, contraindications, cautions, considerations for survivors of abuse, and possible benefits. Upon completion of this course, students will be able to discuss and demonstrate techniques for performing therapeutic massage for special populations.

Credits 2

Prerequisites

As determined by college

MSG 202 : THERAPEUTIC MASSAGE LAB II

Students learn advanced massage therapy techniques building upon previously gained knowledge and skills. Upon completion students will be able to apply specific therapeutic massage techniques to various regions of the body.

Credits 3

Prerequisite Courses

[MSG 102: THERAPEUTIC MASSAGE LAB I](#)

MSG 203 : PATHOLOGY

This course presents baseline information on pathologies which massage therapists may encounter in clinical practice including conditions of the musculoskeletal, neurological, cardiovascular, lymphatic, integumentary, digestive, endocrine, and immune systems. Content will include etiology, symptomatology, medical approaches to treatment and the potential positive or negative impact of massage.

Credits 3

Prerequisites

As determined by college

MSG 204 : MUSCULOSKELETAL AND KINESIOLOGY II

In this course, students learn advanced study of the interaction of the muscular-skeletal system to include palpation techniques of the appendicular regions of the body. Students will demonstrate this knowledge through cognitive and performance based measurement.

Credits 3

Prerequisites

As determined by college

MSG 205 : THERAPEUTIC MASSAGE SUPERVISED CLINICAL II

In this course, students are required to demonstrate competency in specific advanced therapeutic techniques including treatment preparation, use of proper techniques, client progress, and documentation. Students are required to perform a minimum of 45 hours of hands-on client massages.

Credits 2

Prerequisites

As determined by college

MSG 206 : LICENSURE EXAM REVIEW

This course provides a consolidated and intensive review of the basic areas of expertise needed by the entry-level massage therapist. Upon completion, the student should be able to pass a comprehensive exam on information covered in the therapeutic massage program.

Credits 1

Prerequisites

As determined by college

Mathematics

MTH 098 : ELEMENTARY ALGEBRA

This course provides a study of the fundamentals of algebra. Topics include the real number system, linear equations and inequalities, graphing linear equations and inequalities in two variables and systems of equations. This course does not apply toward the general core requirement for mathematics.

Credits 4

Prerequisites

None

MTH 099 : SUPPORT FOR INTERMEDIATE COLLEGE ALGEBRA

This Learning Support course provides co-requisite support in mathematics for students enrolled in MTH 100. The material covered in this course is parallel to and supportive of the material taught in MTH 100. Emphasis is placed on providing students with additional academic and noncognitive support with the goal of success in the students' paired MTH 100 class. This course does not apply toward the general core requirement for mathematics.

Credits 1

Prerequisites

Appropriate mathematics placement score or [MTH 098](#) Elementary Algebra. (Note that [MTH 099](#) is required for students completing [MTH 098](#) Elementary Algebra.)

Corequisites

[MTH 100](#) Intermediate College Algebra

MTH 100 : INTERMEDIATE COLLEGE ALGEBRA

This course provides a study of algebraic concepts such as linear equations and inequalities in two variables, quadratic equations, systems of equations, radical and rational expressions and equations. Functions and relations are introduced and graphed. This course does not apply toward the general core requirement for mathematics in the AA or AS degree programs. MTH 100 may apply toward the general core requirement for AAS degree programs at Northeast. The student who places via the college placement test to take MTH 100 must finish the course with a minimum grade of 70% or a C before taking MTH 110 or MTH 112.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

[MTH 098](#) or appropriate mathematics placement score

MTH 103 : INTRODUCTION TO TECHNICAL MATHEMATICS

This course is designed for the student in technology needing simple arithmetic, algebraic, and right triangle trigonometric skills. This is a terminal course designed for students seeking an AAS degree and does not meet the general core requirements for mathematics.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[MTH 098](#) or appropriate mathematics placement score

MTH 110 : FINITE MATHEMATICS

This course is intended to give an overview of topics in finite mathematics together with their applications, and is taken primarily by students who are not majoring in science, engineering, commerce, or mathematics (i.e., students who are not required to take Calculus). This course will draw on and significantly enhance the student's arithmetic and algebraic skills. The course includes sets, counting, permutations, combinations, basic probability (including Baye's Theorem), and introduction to statistics (including work with Binomial Distributions and Normal Distributions) matrices and their applications to Markov chains and decision theory. Additional topics may include symbolic logic, linear models, linear programming, the simplex method and applications.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisite Courses

[MTH 098: ELEMENTARY ALGEBRA](#)

MTH 111 : SUPPORT FOR PRECALCULUS ALGEBRA

This Learning Support course provides corequisite support in mathematics for students enrolled in MTH 112. The material covered in this course is parallel to and supportive of the material taught in MTH 112. Emphasis is placed on providing students with additional academic and noncognitive support with the goal of success in the students' paired MTH 112 class. This course does not apply toward the general core requirement for mathematics.

Credits 1

MTH 112 : PRECALCULUS ALGEBRA

This course emphasizes the algebra of functions - including polynomial, rational, exponential, and logarithmic functions. In addition, the course covers non-linear inequalities as well as systems of linear and non-linear equations and inequalities.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Successful completion of [MTH 100](#) Intermediate College Algebra with a grade of C or higher or appropriate placement.

Corequisites

[MTH 111](#) Support for Precalculus Algebra, if required

MTH 113 : PRECALCULUS TRIGONOMETRY

This course includes the study of trigonometric (circular) functions and inverse trigonometric functions as well as extensive work with trigonometric identities, equations, and formulas. The course also covers vectors, complex numbers, DeMoivre's Theorem, and polar graphs. Additional topics may include conic sections and product-sum formulas.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Grade of C or higher in [MTH 112](#) or appropriate placement scores

MTH 116 : MATHEMATICAL APPLICATIONS

This course provides practical applications of mathematics and includes selected topics from consumer math, algebra, and geometry. The course covers integers, percent, interest, ratio and proportion, measurement systems, linear equations, and problem solving.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

None

MTH 120 : CALCULUS AND ITS APPLICATIONS

This course is intended to give a broad overview of calculus. It includes limits, differentiation, and integration of algebraic, exponential, logarithmic, and multi-variable functions with applications to business, economics, and other disciplines. This course may also include LaGrange multipliers, extrema of functions of two variables, method of least squares, linear approximation, and linear programming.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Grade of C or higher in [MTH 112](#), 113, or 115 or appropriate placement score

MTH 125 : CALCULUS I

This is the first of three courses in the basic calculus sequence taken primarily by students in science, engineering, and mathematics. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral and its basic applications to area problems. Applications of the derivative are covered in detail, including approximations of error using differentials, maximum and minimum problems, and curve sketching using calculus.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Grade of C or higher in [MTH 113](#) or 115 or appropriate placement score

MTH 126 : CALCULUS II

This is the second of three courses in the basic calculus sequence. Topics include applications of integration, techniques of integration, infinite series, polar coordinates, and parametric equations, lines and planes in space, and vectors in the plane and in space.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Grade of C or higher in [MTH 125](#)

MTH 227 : CALCULUS III

This is the third of three courses in the basic calculus sequence. Topics include vector functions, functions of two or more variables, partial derivatives (including applications), quadric surfaces, multiple integration, and vector calculus (including Green's Theorem, curl and divergence, surface integrals, and Stokes' Theorem).

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Grade of C or higher in [MTH 126](#)

MTH 231 : MATH FOR THE ELEMENTARY TEACHER I

This course is designed to develop a deeper understanding of elementary school mathematics content needed for teaching. The course is designed to develop conceptual understanding of number systems and operations by focusing on basic concepts and principles, exploring multiple representations and strategies, and illuminating connections among concepts and procedures. Topics include whole numbers and integers, fractions, ratio, percent, decimals, and arithmetic operations within these systems.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Grade of C or higher in [MTH 100](#) or appropriate placement score

MTH 232 : MATH FOR THE ELEMENTARY TEACHER II

This course is designed to provide mathematical insights into measurement and geometry for students majoring in elementary education. Topics include geometric shapes (two- and three-dimensional), measurement, congruence and similarity, symmetry, and transformations.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Grade of C or higher in [MTH 100](#) or appropriate placement score

MTH 237 : LINEAR ALGEBRA

This course introduces the basic theory and application of the following topics: systems of linear equations and matrices, (finite-dimensional) vector spaces, linear transformations and matrices, determinants, eigenvalues and eigenvectors, inner product and orthogonality, Gram-Schmidt, least squares, and the diagonalization of symmetric matrices.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Grade of C or higher in [MTH 126](#)

MTH 238 : APPLIED DIFFERENTIAL EQUATIONS I

This course is an introduction to techniques for solving differential equations with applications. Topics include solving first order differential equations, applications to various models (e.g. populations, motion, chemical mixtures, etc.), solving higher order linear differential equations with constant coefficients (general theory, undetermined coefficients, reduction of order and the method of variation of parameters, and Laplace transform). Series solutions and solutions to systems are also covered.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

Corequisite of [MTH 227](#)

MTH 265 : ELEMENTARY STATISTICS

This course provides an introduction to methods of statistics and includes the following topics: sampling, frequency distributions, measures of central tendency and variation, probability, discrete and continuous distributions, graphic representation, hypothesis testing, confidence intervals, regression, and applications.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Grade of C or higher in [MTH 100](#) or appropriate placement score

Mechanical Design Technology

MDT 147 : INVENTOR CADD

In this course students will use the beginning and intermediate techniques of Inventor computer-aided drafting/design software to develop and render 3-D solids. Topics include sketching, 3-D modeling commands, specialized software applications, development of 2-D drawings from the 3-D models, rendering and plotting. The student will be able to develop the sketches necessary to create 3-D solids and turn them into 2-D drawings for fabrication.

Credits 3

Prerequisites

As required by program

MDT 187 : ADVANCED INVENTOR CADD

In this course students will use advanced techniques of Inventor computer-aided drafting/design software to develop and render 3-D solid model assemblies. Topics include advanced sketching and 3D-modeling commands, animation software applications and stress analysis applications. The student will be able to develop the sketches necessary to create 3-D solids, assemblies, animation and perform stress analysis on parts and assemblies.

Credits 3

Prerequisite Courses

[MDT 147: INVENTOR CADD](#)

MDT 202 : SOLID WORKS CADD

This course introduces the student to parametric, feature-based solid modeling using the 3-D concepts of SolidWorks computer-aided design software. This course covers the commands, concepts, views, dimensioning, and techniques to design solid-model parts quicker than 2-D software. The student will be able to use SolidWorks computer-aided design software to properly draw the views necessary to manufacture a part.

Credits 3

Prerequisites

As required by program

MDT 252 : ADVANCED SOLIDWORKS CADD

This course broadens the student's concepts of parametric, feature-based, solid modeling using the 3-D concepts of parts. The student will be able to use SolidWorks computer-aided design software to properly draw the views necessary to manufacture advanced, designed parts.

Credits 3

Prerequisite Courses

[MDT 202: SOLID WORKS CADD](#)

Medical Assisting Technology

MAT 101 : MEDICAL TERMINOLOGY

This course is designed for medical assistants, student nurses, and others in medically related fields. The course will focus on the more common prefixes, roots, and suffixes used to construct the language of medicine with these word parts to determine the meanings of new or unfamiliar terms. The student will learn a system of word building which will enable them to interpret medical terms. CORE

Credits 3

Prerequisites

As required by college

MAT 102 : MEDICAL ASSISTING THEORY I

This course provides students with an overview of the structural organization of the human body. Specific topics include anatomical descriptors, body planes, directional terms, body cavities, specified major organs, normal functions of body systems and common related pathology, analysis of pathology as related to interaction of body systems, implication of disease and disability when homeostasis is not maintained, and implications of treatment of related pathology. Upon completion, students should be able to demonstrate a basic working knowledge of these body systems. CORE

Credits 3

Prerequisites

As required by college

MAT 103 : MEDICAL ASSISTING THEORY II

This course provides students with information of select systems of the human body. Specific topics include specified major organs, normal functions of body systems and common related pathology, analysis of pathology as related to interaction of body systems, implication of disease and disability when homeostasis is not maintained, and implications of treatment of related pathology. Upon completion, students should be able to demonstrate a basic working knowledge of these body systems. CORE

Credits 3

Prerequisites

As required by college

MAT 111 : CLINICAL PROCEDURES I FOR THE MEDICAL ASSISTANT

This course includes instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with examination, and patient education. Upon completion, students will be able to demonstrate competence in exam room procedures. CORE

Credits 3

Prerequisites

As required by college

MAT 120 : MEDICAL ADMINISTRATIVE PROCEDURES I

This course introduces medical office administrative procedures. Topics include appointment scheduling, telephone techniques, managing the physician's schedule, handling mail, preparing and maintaining medical records, and patient orientation. Upon completion, students should be able to perform basic medical administrative skills. CORE

Credits 3

Prerequisites

As required by college

MAT 121 : MEDICAL ADMINISTRATIVE PROCEDURES II

This course introduces medical office administrative procedures not covered in Medical Administrative Procedures I. Topics include fees, credit, and collections, banking, bookkeeping, Payroll, and computerized finance applications. Upon completion students should be able to manage financial aspects of medical offices. CORE

Credits 3

Prerequisites

As required by college

MAT 125 : LABORATORY PROCEDURES I FOR THE MEDICAL ASSISTANT

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective diagnostic tests, such as a CBC, screening and follow-up of test results and OSHA/ CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics. CORE

Credits 3

Prerequisites

As required by college

MAT 128 : MEDICAL LAW AND ETHICS FOR THE MEDICAL ASSISTANT

This course provides basic information related to the legal relationship of patient and physician. Topics to be covered include creation and termination of contracts, implied and informed consent, professional liability, invasion of privacy, malpractice, tort, liability, breach of contract, and the Medical Practice Act. Upon completion, students should be able to recognize ethical and legal implications of these topics as they relate to the medical assistant. CORE

Credits 3

Prerequisites

As required by college

MAT 200 : MANAGEMENT OF OFFICE EMERGENCIES

This course is designed to instruct students in handling emergencies in the medical office. Emergencies presented will include cardiovascular emergencies, diabetic emergencies, seizures, syncope, hyperthermia and hypothermia, shock, musculoskeletal emergencies, and poisoning. Upon completion, students should be able to recognize emergency situations and take appropriate actions. CORE

Credits 2

Prerequisites

As required by college

MAT 211 : CLINICAL PROCEDURES II FOR THE MEDICAL ASSISTANT

This course includes instruction in vital signs and special examination procedures. Emphasis is placed on interviewing skills, appropriate triage and preparing patients for diagnostic procedures. Upon completion, students should be able to assist with special procedures. CORE

Credits 3

Prerequisites

As required by college

MAT 215 : LABORATORY PROCEDURES II FOR THE MEDICAL ASSISTANT

This course instructs the student in the fundamental theory and lab application for the medical office. Microbiology, urinalysis, serology, blood chemistry, and venipuncture theory as well as venipuncture collection procedures are discussed and performed. Upon completion, students should be able to perform basic lab tests/skills on course topics. Instruction from this course is based on the Educational Competencies for the Medical Assistant, For CAAHEP Accredited Medical Assisting Educational Programs, 2008 standards.

CORE

Credits 3

Prerequisites

As required by college

MAT 216 : MEDICAL PHARMACOLOGY FOR THE MEDICAL OFFICE

This course teaches the commonly administered drugs used in the medical field including their classifications, actions, indications, contraindications, and side effects on the body. Correct demonstration of drug calculation, preparation, administration, and documentation are also taught. Upon completion, students should be able to demonstrate safe drug administration and recognize common medical classifications and their patient implications. CORE

Credits 4

Prerequisites

As required by college

MAT 218 : EKG TECHNICIAN

This course provides the student with an overview of cardiovascular electrophysiology and its role in health care delivery. Topics include cardiovascular anatomy, physiology and electrophysiology, interpretation of rhythm strips and diagnostic electrocardiography. The student should be able to secure an EKG tracing, troubleshoot problems with acquisition of an EKG tracing, and interpret simple EKG rhythm strips.

Credits 3

Prerequisites

As required by college

MAT 220 : MEDICAL OFFICE INSURANCE

In this course emphasis is placed on insurance procedures with advanced diagnostic and procedural coding in the outpatient facility. Study will include correct completion of insurance forms and coding. Upon completion, students should be able to demonstrate proficiency in coding for reimbursements. CORE

Credits 3

Prerequisites

As required by college

MAT 228 : MEDICAL ASSISTANT REVIEW COURSE

This course includes a general review of administrative and clinical functions performed in a medical office. The course will assist the student or graduate in preparing for national credentialing examination.

Credits 1

Prerequisites

As required by college

MAT 229 : MEDICAL ASSISTING PRACTICUM

This course is designed to provide the opportunity to apply clinical, laboratory, and administrative skills in a physician's office, clinic or outpatient facility. The student will gain experience in applying knowledge learned in the classroom in enhancing competence, in strengthening professional communications and interactions. Upon completion, students should be able to perform as an entry-level Medical Assistant. Content of this course is aligned with standards and guidelines from the American Association of Medical Assisting.

CORE

Credits 3

Prerequisites

As required by college

MAT 239 : PHLEBOTOMY PRECEPTORSHIP

This course is designed to provide the opportunity to apply phlebotomy techniques in the physician's clinic and hospital setting. Emphasis is placed on training individuals to properly collect and handle specimens for laboratory testing and to interact with health care personnel, patients, and the general public. Upon completion, students should be prepared for entry-level phlebotomy and to sit for the Phlebotomy Technician Examination (ASCP)

Credits 3

Prerequisites

As required by college

Music Class Instruction

MUS 100 : CONVOCATION

This course (required for music majors each semester) is designed to expose students to a variety of repertory styles and to give students an opportunity to practice individual performance skills. Emphasis is placed on exposure to performances and lectures by guest artists, faculty or students, and on personal performance(s) in class each semester.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

MUS 101 : MUSIC APPRECIATION

This is a survey course that requires no previous musical skills. The course covers a minimum of three stylistic periods of music, provides a multicultural perspective, and includes both vocal and instrumental genres. It includes the aesthetic/stylistic characteristics of historical periods and an aural perception of the elements of music.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

MUS 110 : BASIC MUSICIANSHIP

This course is designed to provide rudimentary music knowledge and skills for the student with a limited music background. Topics include a study of notation, rhythm, scales, keys, intervals, chords and basic sight singing and ear training skills. Upon completion, students should be able to read and understand musical scores and demonstrate basic sight singing and ear training skills for rhythm, melody and harmony.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Permission of the instructor

MUS 111 : MUSIC THEORY I

This course introduces the student to the diatonic harmonic practices in the Common Practice Period. Topics include fundamental musical materials (rhythm, pitch, scales, intervals, diatonic harmonies) and an introduction to the principles of voice leading and harmonic progression. Upon completion, students should be able to demonstrate a basic competency using diatonic harmony through analysis, writing, sight singing, dictation and keyboard skills.

Credits 4

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

[MUS 110](#) or suitable placement score or permission of the instructor

MUS 112 : MUSIC THEORY II

This course completes the study of diatonic harmonic practices in the Common Practice Period and introduces simple musical forms. Topics include principles of voice leading used in three- and four-part triadic harmony and diatonic seventh chords, non-chord tones, cadences, phrases and periods. Upon completion, students should be able to demonstrate competence using diatonic harmony through analysis, writing, sight singing, dictation and keyboard skills.

Credits 4

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisite Courses

[MUS 111: MUSIC THEORY I](#)

MUS 115 : FUNDAMENTALS OF MUSIC

This course is designed to teach the basic fundamentals of music and develop usable musical skills for the classroom teacher. Topics include rhythmic notation, simple and compound meters, pitch notation, correct singing techniques, phrases, keyboard awareness, key signatures, scales, intervals and harmony using I, IV, and V with a chordal instrument. Upon completion, students should be able to sing a song, harmonize a simple tune, demonstrate rhythmic patterns and identify musical concepts through written documentation.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

MUS 116 : COMPUTER APPLICATIONS IN MUSIC

This course introduces the history and use of computer applications in music. Topics include an introduction to computer skills, MIDI and the application of notation and sequencing software programs (i.e. Finale, Performer). Upon completion, students should be able to demonstrate basic competency in the use of computers in music.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

MUS 211 : MUSIC THEORY III

This course introduces the student to the chromatic harmonic practices in the Common Practice Period. Topics include secondary functions, modulatory techniques, and binary and ternary forms. Upon completion, students should be able to demonstrate competence using chromatic harmony through analysis, writing, sight singing, dictation and keyboard skills.

Credits 4

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[MUS 112.](#)

Corequisites

MUS 213, if ear training lab is a separate course

MUS 217 : JAZZ IMPROVISATION

This course is designed to prepare the student with the theoretical background and improvisational techniques utilized in jazz performance. Emphasis is placed on the understanding of chord structures, chord progressions, scale structures and melodic design. Upon completion, students should be able to perform an improvisational solo with a jazz ensemble.

Credits 1-3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

Permission of the instructor

MUS 251 : INTRODUCTION TO CONDUCTING

This course introduces the fundamentals of conducting choral and/or instrumental ensembles. Topics include a study of simple and compound meters, score reading and techniques for conducting effective rehearsals. Upon completion, students should be able to prepare and conduct a choral and/or instrumental score in a rehearsal or performance setting.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisite Courses

[MUS 110: BASIC MUSICIANSHIP](#)

MUS 293 : RECORDING TECHNIQUES

This course provides an introduction to the terminology, equipment and methods of commercial recording, and includes an internship in an operational recording studio. Emphasis is placed on recording techniques used in the modern recording studio, various aspects of sound and acoustics, and identifying recording problems in various musical examples. Upon completion, students should be able to demonstrate a mastery of basic recording techniques by producing, engineering and re-mixing a multitrack recording.

Credits 3

Prerequisites

As required by program

Music Ensemble

MUL 101 : CLASS PIANO I

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 102 : CLASS PIANO II

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 111 : CLASS VOICE I

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 112 : CLASS VOICE II

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 161 : CLASS FRETTED INSTRUMENTS I

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 162 : CLASS FRETTED INSTRUMENTS II

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 170 : MUSIC WORKSHOP (GUITAR ENSEMBLE) I

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1-3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 171 : MUSIC WORKSHOP (GUITAR ENSEMBLE) II

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1-3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 180 : CHORUS I

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 181 : CHORUS II

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 182 : VOCAL ENSEMBLE I

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 183 : VOCAL ENSEMBLE II

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 184 : JAZZ/SHOW CHOIR (ENCORE) I

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 185 : JAZZ/SHOW CHOIR (ENCORE) II

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 190 : CONCERT BAND I

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 191 : CONCERT BAND II

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 192 : JAZZ COMBO (MUSTANG STRING BAND) I

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 193 : JAZZ COMBO (MUSTANG STRING BAND) II

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 196 : JAZZ BAND (NACC JAZZ ENSEMBLE) I

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 197 : JAZZ BAND (NACC JAZZ ENSEMBLE) II

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 201 : CLASS PIANO III

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 202 : CLASS PIANO IV

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 211 : CLASS VOICE III

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 212 : CLASS VOICE IV

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 270 : MUSIC WORKSHOP (GUITAR ENSEMBLE) III

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1-3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 271 : MUSIC WORKSHOP (GUITAR ENSEMBLE) IV

These courses are seminar clinics in advanced rehearsal/ performance techniques. Emphasis is placed on intensive rehearsal techniques required for advanced or specialized performance groups. Upon completion, students should be able to effectively participate in performances presented by this type of ensemble.

Credits 1-3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

MUL 280 : CHORUS III

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 281 : CHORUS IV

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 282 : VOCAL ENSEMBLE III

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 283 : VOCAL ENSEMBLE IV

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 284 : JAZZ/SHOW CHOIR (ENCORE) III

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 285 : JAZZ/SHOW CHOIR (ENCORE) IV

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 290 : CONCERT BAND III

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 291 : CONCERT BAND IV

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 292 : JAZZ COMBO (MUSTANG STRING BAND) III

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 293 : JAZZ COMBO (MUSTANG STRING BAND) IV

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 296 : JAZZ BAND (NACC JAZZ ENSEMBLE) III

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

MUL 297 : JAZZ BAND (NACC JAZZ ENSEMBLE) IV

These courses provide an opportunity for students to participate in a performing ensemble. Emphasis is placed on rehearsing and performing literature appropriate to the mission and goals of the group. Upon completion, students should be able to effectively participate in performances presented by the ensemble. The course is open by audition only.

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

Permission of the instructor

Music Performance

MUP 101 : PRIVATE PIANO I

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 102 : PRIVATE PIANO II

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 111 : PRIVATE VOICE I

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 112 : PRIVATE VOICE II

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 127 : PRIVATE DOUBLE BASS I

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 128 : PRIVATE DOUBLE BASS II

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 133 : PRIVATE GUITAR I

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 134 : PRIVATE GUITAR II

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 135 : PRIVATE FRETTED INSTRUMENTS (OTHER THAN GUITAR) I

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 136 : PRIVATE FRETTED INSTRUMENTS (OTHER THAN GUITAR) II

Credits 1-2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 141 : PRIVATE FLUTE I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 142 : PRIVATE FLUTE II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 143 : PRIVATE CLARINET I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 144 : PRIVATE CLARINET II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 145 : PRIVATE SAXOPHONE I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 146 : PRIVATE SAXOPHONE II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 151 : PRIVATE OBOE I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 152 : PRIVATE OBOE II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 153 : PRIVATE BASSOON I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 154 : PRIVATE BASSOON II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 161 : PRIVATE TRUMPET I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 162 : PRIVATE TRUMPET II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 163 : PRIVATE FRENCH HORN I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 164 : PRIVATE FRENCH HORN II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 171 : PRIVATE TROMBONE I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 172 : PRIVATE TROMBONE II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 173 : PRIVATE EUPHONIUM I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 174 : PRIVATE EUPHONIUM II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 175 : PRIVATE TUBA I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 176 : PRIVATE TUBA II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 181 : PRIVATE PERCUSSION I**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 182 : PRIVATE PERCUSSION II**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 201 : PRIVATE PIANO III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 202 : PRIVATE PIANO IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 211 : PRIVATE VOICE III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 212 : PRIVATE VOICE IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 227 : PRIVATE DOUBLE BASS III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 228 : PRIVATE DOUBLE BASS IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 233 : PRIVATE GUITAR III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 234 : PRIVATE GUITAR IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 235 : PRIVATE FRETTED INSTRUMENTS (OTHER THAN GUITAR) III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 236 : PRIVATE FRETTED INSTRUMENTS (OTHER THAN GUITAR) IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 241 : PRIVATE FLUTE III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 242 : PRIVATE FLUTE IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 243 : PRIVATE CLARINET III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 244 : PRIVATE CLARINET IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 245 : PRIVATE SAXOPHONE III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 246 : PRIVATE SAXOPHONE IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 251 : PRIVATE OBOE III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 252 : PRIVATE OBOE IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 253 : PRIVATE BASSOON III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 254 : PRIVATE BASSOON IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 261 : PRIVATE TRUMPET III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 262 : PRIVATE TRUMPET IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 263 : PRIVATE FRENCH HORN III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 264 : PRIVATE FRENCH HORN IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 271 : PRIVATE TROMBONE III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 272 : PRIVATE TROMBONE IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 273 : PRIVATE EUPHONIUM III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 274 : PRIVATE EUPHONIUM IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 275 : PRIVATE TUBA III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 276 : PRIVATE TUBA IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 281 : PRIVATE PERCUSSION III**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

MUP 282 : PRIVATE PERCUSSION IV**Credits** 1-2**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Nurse Assistant/aide

NAS 100 : LONG-TERM CARE NURSING ASSISTANT

This course fulfills the seventy-five (75) hour Omnibus Budget Reconciliation Act (OBRA) requirements for training of long-term care nursing assistants in preparation for certification through competency evaluation. Emphasis is placed on the development of the knowledge, attitudes, and skills required of the long-term care nursing assistant. Upon completion of this course, the student should demonstrate satisfactory performance on written examinations and clinical skills.

Credits 4

Prerequisites

As required by college.

Corequisites

As required by college

NAS 120 : FUNDAMENTALS OF NURSING ASSISTANT/ HOME HEALTH AID

This course provides the student with the necessary theory and laboratory experiences for the development of skills required to qualify as a long-term care Nursing Assistant/Home Health Aide. Emphasis is placed on the acquisition of skills in communication, observation, safety, mobility/body mechanics, personal and restorative care, and infection control necessary to care for patients and clients of all ages. Upon completion of this course, the student will be able to apply concepts and skills in areas required by the Omnibus Budget Reconciliation Act (OBRA) and the National Association of Home Care.

Credits 7

Prerequisites

As required by college.

Corequisites

As Required by college

Nursing

**Associate in Applied Science Degree –
5 Semesters/Two Academic Years**

**Practical Nursing Certificate –
3 Semesters/One Academic Year**

The nursing program is an integral part of Northeast Alabama Community College and accepts the mission statement and the goals of Northeast Alabama Community College. The nursing curriculum combines general education and nursing education courses. The Associate in Applied Science Degree is awarded by Northeast to the student who successfully completes all requirements of the nursing program. Students in the program are eligible after successful completion of the first three semesters for the Practical Nursing certificate.

The graduate of the associate degree program is eligible to apply to the State Board of Nursing to take the National Council Licensure Examination (NCLEX-RN) leading to licensure as a registered nurse. The review of the application by the State Board of Nursing determines eligibility of the applicant to take the licensure examination.

Completers of the practical nursing program are awarded a certificate and are eligible to apply to the State Board of Nursing to take the National Council Licensure Examination (NCLEXPN) leading to licensure as a practical nurse. The review of the application by the State Board of Nursing determines eligibility of the applicant to take the licensure examination.

Legal requirements for licensure in the State of Alabama are listed in the **Alabama Board of Nursing Administrative Code**. The applicant for licensure examination should be aware that eligibility for initial and continuing licensure in Alabama includes questions concerning such matters as convictions of criminal offenses, convictions for driving under the influence of drugs/alcohol, treatment for mental illness, treatment for chemical dependency, disciplinary action by a state board of nursing, placed on a state/federal abuse registry, or courtmartialed, disciplined, or administratively discharged by the military. The application to take the licensure examination may be denied by the State Board of Nursing if all the requirements as listed in the **Alabama Board of Nursing Administrative Code** are not met by the applicant. Although these policies refer specifically to Alabama, other states have similar stipulations regarding licensure. Individuals must meet the following criteria for initial licensure as a nurse.

1. Complete all requirements for graduation from an approved nursing program.
2. Receive approval by the State Board of Nursing to take the National Council Licensure Examination (NCLEX).
3. Achieve a passing score on the National Council Licensure Examination (NCLEX).

Accreditation Status

Approved by Alabama Community College System Board of Trustees

Approved by Alabama Board of Nursing

Accredited by the Accreditation Commission for Education in Nursing (ACEN)

Admission Requirements

1. Unconditional admission to the College. In order to be unconditionally admitted, the Admissions Office must receive official transcripts of all attempted college work.
2. Complete application to the Nursing Program by the published deadline. It is the student's responsibility to verify all required documentation has been received by the published deadline.

3. A minimum of 2.5 grade point average (GPA) for nursing required core academic courses.
4. Minimum 2.5 cumulative GPA at current institution (which includes all course work completed) and/or cumulative 2.5 GPA at institution from which student is transferring.
5. A minimum of 2.5 grade point average (GPA) cumulative high school for students without prior college courses (GED will be used if applicable).
6. A minimum of 18 ACT composite score.
7. Eligibility for ENG 101, BIO 201, and MTH 100 as determined by college policy.
8. Good standing with the college.
9. Must meet **ESSENTIAL FUNCTIONS/ELIGIBILITY CRITERIA** for nursing.

Admission to the nursing program is competitive and the number of students accepted is limited by the number of faculty and clinical facilities available.

Meeting minimal requirements does not guarantee acceptance.

Should the student decline acceptance or be denied admission based on qualifications, he/she must re-submit an application by published deadline of the following academic year. It is the student's responsibility to adhere to the admission requirements described and verify all required documentation has been received by published deadline. **Students should contact a nursing advisor for clarification, if needed.**

IT IS THE RESPONSIBILITY OF THE STUDENT TO KEEP THE NURSING APPLICATION UPDATED. APPLICANTS ARE ENCOURAGED TO VERIFY COMPLETION OF PROFILE PRIOR TO THE FILING DEADLINE.

Nursing Program Selection Criteria

After meeting all minimum requirements, applicants are ranked based upon a point awarded system as follows:

Calculation of Points for Ranking	MIN	MAX
1. Minimum ACT Composite 18		
<ul style="list-style-type: none"> • Composite scores below 18 will render applicant ineligible • We accept the highest ACT composite score on file • No time limit on ACT score 	18	36
Points for Grades on Core Academic Courses:		
<ul style="list-style-type: none"> • ENG 101, MTH 100, BIO 100, BIO 201, BIO 202 	0	12
3. Additional 10 points based on NACC policy:		
A. GPA as calculated on Core Academic Courses (Up to 4.0 points)	2.5	4
B. All General Education Courses Completed:		
<ul style="list-style-type: none"> • (ENG 101, MTH 100, BIO 201, BIO 202, PSY 200, PSY 210, SPH 106/107, BIO 220, Humanities Elective – ART, MUS, PHL, THR, Ethics, or foreign language) • No partial points awarded 	0	1
C. Current CNA Certification (SSN Required to verify)	0	2
D. First time nursing student	0	1

E. Attended NACC's Pre-nursing Seminar within 12 months of application	0	1
F. NACC Loyalty Points	0	1
TOTAL POINTS		20.5 58

Additional Criteria:

- Student must have a minimum GPA of 2.5 on Core Academic Courses.
- All Core Academic Courses DO NOT have to be complete for program eligibility.
- Core Academic Course GPA is calculated on courses taken or accepted in transfer and appearing on your NACC transcript. GPA may be calculated on <4 of these courses.
- If you have not taken any of these Core Academic Courses, your high school GPA is used. Cumulative High School GPA must be minimum of 2.5 for students without prior college courses (GED will be used if applicable).
- Cumulative GPA must be 2.5 at NACC and all previous transferring institutions. This includes all course work completed.
- Must be unconditionally admitted to NACC. In order to be unconditionally admitted, the Admissions Office must receive official transcripts on ALL attempted college work.
- Must have a minimum of 18 ACT composite score.
- Must meet the Essential Functions/Eligibility Criteria for nursing as determined by Healthcare Provider.
- If not already completed, student must be eligible to take ENG 101, BIO 201, and MTH 100 the first semester accepted into the nursing program.

Program Requirements:

1. The student must comply with legal, moral, and legislative standards in accordance with the Alabama Board of Nursing Administrative Code.
2. The student is required to follow Federal HIPAA regulations regarding client confidentiality and privacy. Student must respect the client's right to privacy by protecting confidential information unless obligated to disclose in a court of law under proper authorization or legal compulsion (Alabama Board of Nursing Administrative Code). **Students may be recommended for dismissal from the nursing program for failing to comply with this requirement.**
3. The student must follow the testing policy which is available in the course syllabi and the Nursing Student Handbook.
4. The student may be recommended for dismissal from the nursing program when not adhering to the policies and procedures of the facility to which they are assigned, Quality Safety Education Standards for nurses, or the program standards for client safety.

5. A rating of unsatisfactory in clinical performance will result in a grade of "F" for that course regardless of any other grading component in the course.
6. The student who has been determined to be **UNSATISFACTORY** in providing **safe effective client care** in the clinical area may not be allowed readmission or reinstatement into the nursing program.
7. The student is expected to be academically honest. Any student found guilty of cheating may be recommended for dismissal from the program with a grade of "F."
8. The student will have professional liability insurance throughout the nursing program. Fees are included in tuition.
9. The student must show documentation of current cardiopulmonary resuscitation (CPR) certification at the healthcare provider level prior to placement in a clinical agency.
10. The student is required to obtain a health evaluation by a qualified health practitioner on the form provided by the nursing department. **(MUST BE UPLOADED TO THE ONLINE CREDENTIALING SERVICE BY THE PROVIDED DEADLINE.)**
11. The student is required to obtain an evaluation of the Essential Functions/Eligibility Criteria as determined by a qualified health practitioner on forms provided by the nursing program. The evaluation must be submitted to the online credentialing service by the provided deadline. Additional health examinations may be required depending on physical or psychological alterations which may occur during the program of study.
12. The student is highly encouraged to receive a series of three Hepatitis B vaccines, obtain a Positive titer or sign a declination policy provided by the nursing department.
13. **The student is required to submit to a pre-clinical drug screen at a time designated by the nursing faculty.** Failure to comply with this requirement may result in a recommendation for dismissal from the program. Random drug screens may be required should the student exhibit behaviors indicative of substance abuse during a clinical experience or during on campus clinical lab. Admission drug screen and annual drug screen fees are included in tuition. Any additional drug screen is performed at the student's expense. A positive drug screen will prohibit the student from completing the clinical requirements of the nursing curriculum and the student will be recommended for withdrawal from the nursing program and/or referred to the Dean of Student Services for the disciplinary process. A student with a prior positive drug screen may apply for readmission or reinstatement to the nursing program with provided evidence of completion of an approved treatment program. (See Nursing Student Handbook for detailed policy).
14. The student is required to submit to a criminal background check prior to placement in a clinical

facility, which is required by clinical agencies. Students who have a positive background check will not be allowed to complete the clinical component of the nursing course and would be recommended for withdrawal from the nursing program.

15. The student must be registered prior to attending class. Children are not allowed in the classroom, clinical lab or computer lab at any time.
16. The student is required to participate in testing programs and remediation included throughout the nursing curriculum.

Course Grade:

A course grade will be determined based on theory and clinical performance. **Students must achieve a grade of "75%" or above in each required nursing course to continue in the nursing program. A grade below "75%" will result in a "D" or an "F" depending on the numerical score.**

Grading Scale:

90 – 100	= A
80 – 89	= B
75 – 79	= C
60 – 74	= D
59 and below	= F

Attendance Policy for Nursing Students:

Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from the class before poor attendance interferes with the student's ability to achieve the objectives required in the course.

Theory/Clinical/Laboratory

See Nursing Student Handbook for detailed attendance policies.

Responsibility to Agencies

All students are assigned to various health care agencies for clinical experiences. Students must follow the policies and procedures of the health care agencies and must be acceptable to those agencies. The student is responsible for complying with the policies and procedures required by the agencies which provide for the safety and welfare of the clients. Failure, by the student, to meet this requirement will mean the student is excluded from a required clinical experience. The student may be recommended for withdrawal from the nursing program and/or will result in a formal complaint being filed against the student with the Dean of Student Services. (See Nursing Student Handbook for detailed policies).

Student Organizations and Activities:

Students enrolled in the nursing program participate in campus organizations as well as social, cultural and college activities the same as other college students. In addition to the regular activities at the College, students in nursing may belong to the National Student Nurses' Association.

Additional Expenses:

These expenses are approximate and in no way reflect expenses each individual student may incur during the program. This list is not all inclusive.

- Uniforms, lab coat, stethoscope, and blood pressure cuff, etc. (Approx. \$350)
- Professional liability insurance (\$20 each Fall semester)
- Textbooks and other resources (Approx. \$1,000 semester one & approx. \$500 semester two)
- Miscellaneous books and other resources (Approx. \$500)
- Laboratory packet (Approx. \$65 each semester)
- Evaluation of Essential Functions/Eligibility Criteria, Physical & Health Questionnaire by Healthcare Provider (Approx. \$200)
- Online credentialing service (Includes Credentialing & Criminal Background Check) (Approx. \$45)
- Required (immunizations or titers, approx. \$200-\$350)
- Drug Screening Tests (\$35 each Fall semester)
- Testing and learning resource fees (Approx. \$400 per semester)
- Transportation to and from clinical agencies

Additional expenses anticipated during the final semester of the nursing program are approximate. They are as follows:

NCLEX Application and Licensure	\$350.00
NCLEX Review Course	\$400.00
Graduation Fee	58.00
Nursing Pin (Optional)	55.00

Progression Policy for the Nursing Program

In order to continue in the nursing program, the student must meet the following criteria:

1. Maintain a grade of "C" or better in all required general education and nursing courses.
2. Unless completed previously, students must complete all required general education courses according to The Alabama Community College System Nursing Education curriculum.
3. Be acceptable by clinical agencies for clinical experience.

4. Maintain ability to meet Essential Functions/Eligibility Criteria for nursing with or without reasonable accommodations.
5. Maintain program health requirements.
6. Maintain current CPR course completion at the Healthcare Provider Level.
7. Students with an unsuccessful attempt in a nursing course (W, D, or F) cannot progress until the course is repeated successfully. Course repetition will be based on instructor availability and program resources.

Non Progression:

1. A total of two unsuccessful attempts in two separate semesters (D, F, or W) in the nursing program will require the student, who is eligible to return, to apply for admission to the nursing program.
2. Students who have a withdrawal or failure in a nursing course and are eligible to return to that course will be considered for reinstatement to the program.
3. A student may be reinstated to the nursing program only one time. Reinstatement must be within one year from the semester of non-progression. Reinstatement is not guaranteed due to limitations in clinical spaces. All nursing program admission standards must be met.
4. A student must have a 2.5 cumulative GPA at the current institution for reinstatement.
5. If a student has a documented extenuating circumstance that should be considered related to a withdrawal or failure, this student may request a hearing before the Nursing Admissions Committee or other appropriate college committees for a decision on repeating a course (reinstatement) or readmission to the program.

Reinstatement:

In order to be reinstated, a student must:

1. Schedule an appointment with a nursing faculty/advisor to discuss eligibility for reinstatement.
2. Apply for readmission to the College if not currently enrolled. College readmission must be accomplished by published deadlines.
3. Apply for reinstatement to the nursing program by the end of the semester following the term of withdrawal or failure in the nursing program.
4. Demonstrate competency in all previous nursing courses successfully completed with validation of clinical nursing skills and/or written/computerized exams.
5. Student must have a 2.5 cumulative GPA at the current institution for reinstatement.
6. Meet acceptable criteria for placement at all clinical agencies for clinical experiences.
7. Adhere to nursing curriculum or program policies and procedures in effect at the time of reinstatement.

8. Update immunizations, demonstrate current, accepted CPR course completion at the Healthcare Provider Level, background check, and drug screening according to program policy.
9. Reinstatement to the nursing program is not guaranteed. Reinstatement may be denied. Possible reasons for denial include, but are not limited to, the following:
 - a. Grade Point Average (GPA) is less than 2.5 from courses completed at current institution.
 - b. Refusal by clinical agencies to accept the student for clinical experiences.
 - c. Over twelve (12) months have elapsed since the student was enrolled in a nursing course.
 - d. Failure to demonstrate competency in all previous nursing courses successfully completed.
 - e. Space unavailability in a course in which the student wishes to be reinstated.
 - f. Previous disciplinary actions related to unsafe client care and/or unprofessional/unethical behavior
10. Dismissal from the previous program for disciplinary reasons and/or unsafe and or unsatisfactory client care in the clinical area may prohibit reinstatement or admission back into the nursing program.
11. Additional requirements for remediation or satisfactory completion of a student success seminar may be required by the nursing program.

Readmission:

Students not eligible for program reinstatement may apply for program admission as a new student and must submit all application criteria. If accepted as a new student, the student must take or retake all nursing program courses. Students who are not in good standing, such as those who withdrew or were recommended for dismissal for disciplinary reasons and/or unsafe client care may not be eligible for readmission. Students must adhere to the nursing curriculum and program policies and procedures in effect at the time of readmission.

Transfer Policy:

The transfer policy applies only to students desiring to transfer between Alabama Community College System institutions. It does not apply to students wishing to transfer from other institutions.

1. Must meet minimum admission standards for the nursing program.
2. Must possess a grade of "C" or better in all required nursing program courses taken at another institution and possess a minimum of a 2.5 cumulative GPA at time of transfer.
3. Minimum 2.5 cumulative GPA at current institution (which includes all course work completed) and/or cumulative 2.5 GPA at institution from which student is transferring.

4. Dean/Director of previous nursing program must provide a letter of eligibility/letter of good standing for progression in previous nursing program.
5. Must comply with all program policy requirements at accepting institution.
6. Complete at least 25% of the nursing program required courses for degree/certificate at the accepting institution.
7. Must meet acceptability criteria for placement at clinical agencies for clinical experience.
8. Acceptance of transfer students into nursing programs is limited by the number of faculty and clinical facilities available. Meeting minimal requirements does not guarantee acceptance.

NACC Nursing Program Essential Functions/Eligibility Criteria

The Alabama Community College System endorses the Americans' with Disabilities Act. In accordance with College policy, when requested, reasonable accommodations may be provided for individuals with disabilities.

The essential functions/eligibility criteria delineated below are necessary for nursing program admission, progression, and graduation and for the provision of safe and effective nursing care. The essential functions/eligibility criteria include but are not limited to the ability to:

1. **Sensory Perception**
 - a. **Visual**
 - i. Observe and discern subtle changes in physical conditions and the environment
 - ii. Differentiate color spectrums and color changes
 - iii. Read fine print in varying levels of light
 - iv. Read for prolonged periods of time
 - v. Read cursive writing
 - vi. Read at varying distances
 - vii. Read data/information displayed on monitors/ equipment
 - b. **Auditory**
 - i. Interpret monitoring devices
 - ii. Distinguish muffled sounds heard through a stethoscope
 - iii. Discriminate high and low frequency sounds produced by the body and the environment
 - iv. Effectively communicate with others
 - c. **Tactile**
 - i. Discern tremors, vibrations, pulses, textures,
 - ii. temperature, shapes, size, location and other physical characteristics
 - d. **Olfactory**
 - i. Detect body odors and odors in the environment
2. **Communication/ Interpersonal Relationships**
 - a. Effectively engage in writing, and other methods, in two-way communication and

interact effectively with others, from a variety of social, emotional, cultural, and intellectual backgrounds

- b. Work effectively in groups
- c. Work effectively independently
- d. Discern and interpret nonverbal communication
- e. Express one's ideas and feelings clearly
- f. Communicate with others accurately in a timely manner
- g. Obtain communication information from a computer

3. **Cognitive/Critical Thinking**

- a. Effectively read, write, and comprehend the English language or as translated
- b. Consistently and dependably engage in the process of critical thinking in order to formulate and implement safe and ethical nursing decisions in a variety of health care settings
- c. Demonstrate satisfactory performance on written examinations including mathematical computations without a calculator
- d. Satisfactorily achieve the program objectives

4. **Motor Function**

- a. Handle or manipulate small delicate equipment/objects without extraneous movement, contamination, or destruction
- b. Move, position, turn, transfer, or assist with lifting or lift and carry clients without injury to clients, self, or others
- c. Maintain balance from any position
- d. Maneuver in small/tight spaces
- e. Push/pull or move heavy objects without injury to client, self, or others
- f. Ability to work in a clinical setting performing physical activities requiring energy without jeopardizing the safety of the client, self, or others
- g. Move without difficulty while safely delivering services
- h. Flex, abduct and rotate all joints freely
- i. Respond rapidly to emergency situations
- j. Perform daily care functions for the client
- k. Coordinate fine and gross motor hand movements to provide safe effective nursing care
- l. Calibrate/use equipment
- m. Execute movement required to provide nursing care in all health care settings
- n. Perform CPR and physical assessment
- o. Operate a computer

5. **Professional Behavior**

- a. Convey caring, respect, sensitivity, tact, compassion, empathy, tolerance and a healthy attitude toward others
- b. Demonstrate a mentally healthy attitude that is age appropriate in relationship to the client
- c. Handle multiple tasks concurrently
- d. Perform safe, effective nursing care for clients in a caring context
- e. Understand and follow the policies and procedures of the College and clinical agencies

- f. Understand the consequences of violating the student code of conduct
- g. Perform all duties safely and understand one is subject to discipline for willful violation of safety standards
- h. Meet qualifications for licensure by examination as stipulated by the Alabama Board of Nursing
- i. Pose no direct threat to self or others
- j. Function effectively in situations of uncertainty and stress inherent in providing nursing care
- k. Adapt to changing environments and situations
- l. Remain free of chemical dependency
- m. Report promptly to clinicals and remain for 6-12 hour on the clinical unit
- n. Provide timely nursing care
- o. Accept responsibility, accountability, and ownership of one's actions
- p. Seek supervision/consultation in a timely manner
- q. Examine and modify one's own behavior when it interferes with nursing care or learning Functions

Student Statement

- Student signature required on official document.

Medical Verification

- Validation required on official document by MD/DO/PA/CRNP.

NUR 112 : FUNDAMENTAL CONCEPTS OF NURSING

This course teaches foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes but is not limited to: healthcare delivery systems, professionalism, health promotion, psychosocial well-being, functional ability, gas exchange, safety, pharmacology, and coordinator/manager of care.

Credits 7

Theory Hours 4

Lab Hours 2 **Clinical Hours** 1

Prerequisites

Admission to Nursing Program.

Corequisites

[BIO 201](#), [MTH 100](#) or higher level math

NUR 113 : NURSING CONCEPTS I

This course teaches foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes but is not limited to: coordinator/manager of care, perfusion, oxygenation, infection, inflammation, tissue integrity, nutrition, elimination, mobility/immobility, cellular regulation, acid/ base balance, and fluid/electrolyte balance.

Credits 8

Theory Hours 4

Lab Hours 1 Clinical Hours 3

Prerequisites

[NUR 112](#), [BIO 201](#), [MTH 100](#) or higher level math.

Corequisites

[BIO 202](#), [ENG 101](#), [PSY 200](#)

NUR 114 : NURSING CONCEPTS II

This course teaches foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes but is not limited to: coordinator/manager of care, sexuality, reproduction and childbearing, infection, inflammation, sensory perception, perfusion, cellular regulation, mood disorders and affect, renal fluid/ electrolyte balance, and medical emergencies.

Credits 8

Theory Hours 5

Lab Hours 0 Clinical Hours 3

Prerequisites

[NUR 113](#), [BIO 202](#), [ENG 101](#), [PSY 200](#).

Corequisites

[NUR 115](#), [SPH 107](#)

NUR 115 : EVIDENCE BASED CLINICAL REASONING

This course provides students with opportunities to collaborate with various members of the health care team in a family and community context. Students utilize clinical reasoning to assimilate concepts within the individual, health, and nursing domains.

Credits 2

Theory Hours 1

Lab Hours 0 Clinical Hours 1

Prerequisites

[NUR 113](#), [BIO 202](#), [ENG 101](#), [PSY 200](#).

Corequisites

[NUR 114](#), [SPH 107](#)

NUR 209 : CONCEPTS FOR HEALTHCARE TRANSITION STUDENTS

This course focuses on application of nursing concepts to assist health care professionals to transition into the role of the registered nurse. Emphasis in this course is placed on evidenced based clinical decision making and nursing concepts provided in a family and community context for a variety of health alterations across the lifespan.

Credits 10

Theory Hours 6

Lab Hours 1 Clinical Hours 3

Prerequisites

[BIO 201](#), [BIO 202](#), [ENG 101](#), [MTH 100](#), [PSY 200](#), [SPH 107](#)

NUR 211 : ADVANCED NURSING CONCEPTS

This course provides opportunities for students to integrate advanced nursing care concepts within a family and community context. Content includes but is not limited to: manager of care for advanced concepts in safety, fluid/electrolyte balance, cellular regulation, gas exchange, psychosocial well-being, growth and development, perfusion, and medical emergencies.

Credits 7

Theory Hours 4

Lab Hours 0 Clinical Hours 3

Prerequisites

[NUR 114](#), [NUR 115](#), [SPH 107](#).

Corequisites

[BIO 220](#), [PSY 210](#)

NUR 221 : ADVANCED EVIDENCE BASED CLINICAL REASONING

This course provides students with opportunities to demonstrate graduate competencies through didactic and preceptorship experiences necessary to transition to the profession of nursing. Content in nursing and health care domains includes management of care, professionalism, and healthcare delivery systems.

Credits 7

Theory Hours 3

Lab Hours 0 Clinical Hours 4

Prerequisites

[NUR 211](#), [BIO 220](#), [PSY 210](#).

Corequisites

HUMANITIES ELECTIVE (Ethics preferred)

Office Administration

OAD 101 : BEGINNING KEYBOARDING

This course is designed to enable the student to use the touch method of keyboarding through classroom instruction and outside lab. Emphasis on speed and accuracy in keying alphabetic, symbol, and numeric information using the typewriter or microcomputer keyboard. Upon completion, the student should be able to demonstrate proper technique and an acceptable rate of speed and accuracy, as defined by the course syllabus, in the production of basic business documents such as memos, letters, reports, and tables.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 103 : INTERMEDIATE KEYBOARDING

This course is designed to assist the student in increasing speed and accuracy using the touch method of keyboarding through classroom instruction and outside lab. Emphasis is on the production of business documents such as memoranda, letters, reports, tables, and outlines. Upon completion, the student should be able to demonstrate proficiency and an acceptable rate of speed and accuracy, as defined by the course syllabus, in the production of business documents.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[OAD 101](#) or permission of instructor

OAD 125 : WORD PROCESSING

This course is designed to provide the student with basic word processing skills through classroom instruction and outside lab. Emphasis is on the utilization of software features to create, edit and print common office documents. Upon completion, the student should be able to demonstrate the ability to use industry-standard software to generate appropriately formatted, accurate, and attractive business documents such as memo, letters and reports.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[OAD 101](#) or permission of instructor

OAD 126 : ADVANCED WORD PROCESSING

This course is designed to increase student proficiency in using the advanced word processing functions through classroom instruction and outside lab. Emphasis is on the use of industry-standard software to maximize productivity. Upon completion, the student should be able to demonstrate the ability to generate complex documents such as forms, newsletters, and multi-page documents.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[OAD 125](#) or permission of instructor

OAD 131 : BUSINESS ENGLISH

This course is designed to develop the student's ability to use proper English. Emphasis is on grammar, spelling, vocabulary, punctuation, word usage, word division, and proofreading. Upon completion, the student should be able to write and speak effectively.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 138 : RECORDS/INFORMATION MANAGEMENT

This course is designed to give the student knowledge about managing office records and information. Emphasis is on basic filing procedures, methods, systems, supplies, equipment, and modern technology used in the creation, protection, and disposition of records stored in a variety of forms. Upon completion, the student should be able to perform basic filing procedures.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 211 : MEDICAL TERMINOLOGY

This course is designed to familiarize the student with medical terminology. Emphasis is on the spelling, definition, pronunciation, and usage of medical terms. Upon completion, the student should be able to communicate effectively using medical terminology.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 214 : MEDICAL OFFICE PROCEDURES

This course focuses on the responsibilities of professional support personnel in a medical environment. Emphasis is on medical terms, the production of appropriate forms and reports, and office procedures and practices. Upon completion, the student should be able to perform office support tasks required for employment in a medical environment.

Credits 3

Prerequisites

As required by college

OAD 215 : HEALTH INFORMATION MANAGEMENT

This course is designed to promote an understanding of the structure, analysis, and management of medical records. Emphasis is on managing medical and insurance records, coding of diseases, operations and procedures, and the legal aspects of medical records. Upon completion, the student should be able to maintain medical records efficiently.

Credits 3

Prerequisites

As required by college

OAD 217 : OFFICE MANAGEMENT

This course is designed to develop skills necessary for supervision of office functions. Emphasis is on issues relating to the combination of people and technology in achieving the goals of business in a culturally diverse workplace, including the importance of office organization, teamwork, workplace ethics, office politics, and conflict-resolution skills. Upon completion, the student should be able to demonstrate effective supervision in the modern office.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 218 : OFFICE PROCEDURES

This course is designed to develop an awareness of the responsibilities and opportunities of the office professional through classroom instruction and outside lab. Emphasis is on current operating functions, practices and procedures, work habits, attitudes, oral and written communications, and professionalism. Upon completion, the student should be able to demonstrate the ability to effectively function in an office support relationship.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisite Courses

[OAD 101: BEGINNING KEYBOARDING](#)

OAD 231 : OFFICE APPLICATIONS

This course is designed to enable the student to develop skill in the use of integrated software through classroom and lab instruction. Emphasis is on the use of computerized equipment, software, and communications technology. Upon completion, the student should be able to demonstrate proficiency in the selection of appropriate computerized tools to complete designated tasks.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 241 : OFFICE CO-OP

This course is designed to provide the student with an opportunity to work in an office environment. Emphasis is on the integration of classroom learning with on-the-job experiences that relate meaningfully to office careers. Upon completion, the student should be able to demonstrate the ability to apply knowledge and skills gained in the classroom to an actual work situation.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 243 : SPREADSHEET APPLICATIONS

This course is designed to provide the student with a firm foundation in the use of computerized equipment and appropriate software in performing spreadsheet tasks through classroom instruction and lab exercises. Emphasis is on spreadsheet terminology and design, common formulas, and proper file and disk management procedures. Upon completion, the student should be able to use spreadsheet features to design, format, and graph effective spreadsheets.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

OAD 246 : OFFICE GRAPHICS AND PRESENTATIONS

This course is designed to provide the student with a foundation in the use of the computer and appropriate application software in the production of business slides and presentations through classroom instruction and lab exercises. Emphasis is on available software tools, presentation options and design, as well as such presentation considerations as the make-up of the target audience. Upon completion, the student should be able to demonstrate the ability to design and produce a business presentation.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by college

Paralegal/legal Assistant

PRL 101 : INTRODUCTION TO PARALEGAL STUDY

This course introduces the paralegal profession and the legal system. Topics include regulations and concepts, ethics, case analysis, legal reasoning, career opportunities, certification, professional organizations, and other related topics. Upon completion, students should be able to explain the role of the paralegal and identify the skills, knowledge, and ethics required of legal assistants.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 102 : BASIC RESEARCH AND WRITING

This course introduces the techniques of legal research and writing. Emphasis is placed on locating, analyzing, applying, and updating sources of law; effective legal writing, including proper citation; and the use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 103 : ADVANCED LEGAL RESEARCH AND WRITING

This course covers advanced topics in legal research and writing. Topics include more complex legal issues and assignments involving preparation of legal memos, briefs, and other documents and the advanced use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisite Courses

[PRL 102: BASIC RESEARCH AND WRITING](#)

PRL 150 : COMMERCIAL LAW

This course covers legally enforceable agreements, forms of organization, and selected portions of the Uniform Commercial Code. Topics include drafting and enforcement of contracts, leases, and related documents and selection and implementation of business organization forms, sales, and commercial papers. Upon completion, students should be able to apply the elements of a contract, prepare various business documents, and understand the role of commercial paper.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 160 : CRIMINAL LAW AND PROCEDURE

This course introduces substantive criminal law and procedural rights of the accused. Topics include elements of state/ federal crimes, defenses, constitutional issues, pre-trial process, and other related topics. Upon completion, students should be able to explain elements of specific crimes and assist an attorney in preparing a criminal case.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 192 : SELECTED TOPICS IN PARALEGAL

This course provides an opportunity to explore areas of current interest in specific program or discipline areas. Emphasis is placed on subject matter appropriate to the program or discipline. Upon completion, students should be able to demonstrate an understanding of the specific area of study.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 210 : REAL PROPERTY LAW

This course introduces the study of real property law. Topics include the distinction between real and personal property, various estates, mechanics of conveyance and encumbrance, recordation, special proceedings, and other related topics. Upon completion, students should be able to identify estates, forms of deeds, requirements for recording, and procedures to enforce rights to real property.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 230 : DOMESTIC LAW

This course covers laws governing domestic relations. Topics include marriage, separation, divorce, child custody, support, property division, adoption, domestic violence, and other related topics. Upon completion, students should be able to interview clients, gather information, and draft documents related to family law.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 240 : WILLS, TRUSTS, AND ESTATES

This course covers various types of wills, trusts, probate estate administration, and intestacy. Topics include types of wills and execution requirements, caveats and dissents, intestate succession, inventories and accountings, distribution and settlement, and other related topics. Upon completion, students should be able to draft simple wills, prepare estate forms, understand administration of estates including taxation, and explain terms regarding trusts.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

PRL 262 : CIVIL LAW AND PROCEDURE

This course is designed to give the student a basic understanding of the federal rules of civil procedure and Alabama rules of court. The student will demonstrate the ability to prepare a trial notebook for litigation purposes.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by program

PRL 282 : LAW OFFICE MANAGEMENT AND PROCEDURES

This course focuses on the organization, function, practices and procedures of a law office. Emphasis is placed on basic law office management, including office layout, personnel, equipment and supplies, filing systems, scheduling and docket control; as well as the creation, preparation, organization and processing of pleadings, forms, briefs and other legal documents. Upon course completion, students will be able to demonstrate and apply appropriate law office management techniques and procedures.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As determined by college

Philosophy

PHL 206 : ETHICS AND SOCIETY

This course involves the study of ethical issues which confront individuals in the course of their daily lives. The focus is on the fundamental questions of right and wrong, of human rights, and of conflicting obligations. The student should be able to understand and be prepared to make decisions in life regarding ethical issues.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

Physical Education

PED 103 : WEIGHT TRAINING (BEGINNING)

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

PED 104 : WEIGHT TRAINING (INTERMEDIATE)

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

PED 109 : JOGGING

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities.

Credits 1

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

PED 118 : GENERAL CONDITIONING (BEGINNING)

This course provides an individualized approach to general conditioning utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness and conditioning programs. Upon completion, students should be able to set up and implement an individualized physical fitness and conditioning program.

Credits 1**Transfer Code Designation**

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

PED 126 : RECREATIONAL GAMES

This course is designed to give an overview of a variety of recreational games and activities. Emphasis is placed on the skills and rules necessary to participate in a variety of lifetime recreational games. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime recreational activities.

Credits 1**Transfer Code Designation**

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

PED 133 : TENNIS (BEGINNING)

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis.

Credits 1**Transfer Code Designation**

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

PED 134 : TENNIS (INTERMEDIATE)

This course emphasizes the refinement of playing skills. Topics include continuing the development of fundamentals, learning advanced serves, and strokes, and pace and strategies in singles and doubles play. Upon completion, students should be able to play competitive tennis.

Credits 1**Transfer Code Designation**

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[PED 133](#) and/or as required by program

PED 176 : VOLLEYBALL (BEGINNING)

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball.

Credits 1**Transfer Code Designation**

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

PED 188 : YOGA

This course introduces basic instruction in yoga for beginners. Emphasis is placed on instruction in gentle stretching, breathing practices, progress deep relaxation, and posture. Upon completion, students should be able to participate in and appreciate the benefits of the activity.

Credits 1**Transfer Code Designation**

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

PED 200 : FOUNDATIONS OF PHYSICAL EDUCATION

In this course, the history, philosophy, and objectives of health, physical education, and recreation are studied with emphasis on the physiological, sociological, and psychological values of physical education. It is required of all physical education majors.

Credits 3**Transfer Code Designation**

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

Physical Science

PHS 111 : PHYSICAL SCIENCE I

This course provides the non-technical student with an introduction to the basic principles of astronomy, geology, and meteorology. Laboratory is required.

Credits 4**Transfer Code Designation**

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

PHS 112 : PHYSICAL SCIENCE II

This course provides the non-technical student with an introduction to the basic principle of chemistry and physics. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

Physics

PHY 115 : TECHNICAL PHYSICS

Technical physics is an algebra based physics course designed to utilize modular concepts to include: motion, forces, torque, work energy, heat wave/sound, and electricity. Results of physics education research and physics applications in the workplace are used to improve the student's understanding of physics in technical areas. Upon completion, students will be able to: define motion and describe specific module concepts; utilize microcomputers to generate motion diagrams; understand the nature of contact forces and distinguish passive forces; work cooperatively to set-up laboratory exercises; and demonstrate applications of module-specific concepts.

Credits 4

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

MTH100

PHY 120 : INTRODUCTION TO PHYSICS

This course provides an introduction to general physics for non science majors. Topics in fundamentals of mechanics, properties of matter, heat and temperature, simple harmonic motion, SHM, waves and sound, electricity and magnetism, optics and modern physics. Laboratory is required.

Credits 4

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

[MTH 098](#) or higher

PHY 201 : GENERAL PHYSICS I -TRIG BASED

This course is designed to cover general physics at a level that assures previous exposure to college algebra, basic trigonometry. Specific topics include mechanics, properties of matter and energy, thermodynamics, and periodic motion. A laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[MTH 113](#) OR equivalent

PHY 202 : GENERAL PHYSICS II-TRIG BASED

This course is designed to cover general physics using college algebra and basic trigonometry. Specific topics include wave motion, sound, light optics, electroplatics, circuits, magnetism, and modern physics. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisite Courses

[PHY 201: GENERAL PHYSICS I -TRIG BASED](#)

PHY 213 : GENERAL PHYSICS WITH CALCULUS I

This course provides a calculus-based treatment of the principle subdivisions of classical physics: mechanics and energy, including thermodynamics. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisite Courses

[MTH 125: CALCULUS I](#)

PHY 214 : GENERAL PHYSICS WITH CALCULUS II

This course provides a calculus-based study in classical physics. Topics included are: simple harmonic motion, waves, sound, light, optics, electricity and magnetism. Laboratory is required.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisite Courses

[PHY 213: GENERAL PHYSICS WITH CALCULUS I](#)

Plumbing

PLB 111 : INTRODUCTION TO PLUMBING

This course covers fundamental plumbing principles, practices, and history. Topics include basic plumbing principles, safety, job seeking skills, blueprint reading, plumber's math, shop orientation, and school policy. Upon completion, students will be able to seek employment, understand basic plumbing principles, read and interpret blueprints, work safely, and use formulas to solve plumbing problems involving measurement and layouts. This is a CORE course.

Credits 3

Prerequisites

As required by college

PLB 112 : PLUMBING APPLICATIONS

Students perform various basic plumbing and pipefitting tasks. Safety and regulatory compliance is emphasized throughout this course. At the conclusion of this course students will be able to develop basic plumbing drawings and schematics, use hand and power tools, measure fittings, and join pipe with oxy-fuel equipment.

Credits 3

Prerequisites

As required by college

PLB 113 : PIPES & FITTINGS

This course includes the theory of joining pipe and fittings. Topics include methods of joining pipe and fittings, selecting and using power tools, and methods of securing piping. Upon completion students will be able to identify pipe and fittings, identify tools, properly care for tools and identify various types of pipe securing devices. This is a CORE course.

Credits 3

Prerequisites

As required by college

PLB 114 : JOINING PIPES & FITTINGS

This course covers identifying pipe and fittings, proper methods for joining all types of pipe and fittings, hanging and securing pipe and using materials and tools. Emphasis is on all plumbing materials, tools, suppliers, equipment and methods. Upon completion, students will be able to join various pipe and fittings.

Credits 3

Prerequisites

As required by college

PLB 115 : PRESSURE & NON-PRESSURE SYSTEMS

This course covers pressure and non-pressure systems including piping for potable water, drainage, waste, vent, gas, air, and water. Topics include types of plumbing systems, and system design and size. At the conclusion of this course students will be able to rough-in basic plumbing systems for pressure and non-pressure pipe systems. This is a CORE course.

Credits 3

Prerequisites

As required by college

PLB 116 : PRESSURE & NON-PRESSURE SYSTEMS APPLICATIONS

Students perform various basic pressure and non-pressure pipe systems tasks. Safety and regulatory compliance is emphasized throughout this course. At the conclusion of this course students will be able to rough-in basic plumbing systems for pressure and non-pressure pipe systems.

Credits 3

Prerequisites

As required by college

PLB 117 : PLUMBING CODES

This course includes reading and interpreting international codes, local codes, and general regulations. Emphasis is on basic principles, definitions, materials, facility requirements, and technical review. Upon completion, students will be able to read and interpret applicable codes. This is a CORE class.

Credits 3

Prerequisites

As required by college

PLB 211 : PLUMBING & REPAIR & INSTALLATION

This course enables students to read and follow schematics/ diagrams/rough-in sheets to install or repair plumbing fixtures, to troubleshoot and make repairs. Topics include removing, replacing and repairing plumbing fixtures, new installations and troubleshooting. Upon completion, students will be able to make plumbing repairs and install plumbing fixtures.

Credits 3

Prerequisites

As required by college

PLB 212 : PLUMBING REPAIR & INSTALLATION LABORATORY

This course is an application of [PLB 211](#). Topics include repairing and installing plumbing fixtures, and choosing appropriate fixtures for the job. Upon completion, students will be able to install new fixtures and remove, repair, and replace existing plumbing fixtures.

Credits 3

Prerequisites

As required by college

Political Science

POL 211 : AMERICAN NATIONAL GOVERNMENT

This course surveys the background, constitutional principles, organization, and operation of the American political system. Topics include the U. S. Constitution, federalism, civil liberties, civil rights, political parties, interest groups, political campaigns, voting behavior, elections, the presidency, bureaucracy, Congress, and the justice system. Upon completion, students should be able to identify and explain relationships among the basic elements of American government and to function as more informed participants of the American political system.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

POL 220 : STATE AND LOCAL GOVERNMENT

This course is a study of the forms of organization, functions, institutions, and operation of American state and local governments. Emphasis is placed on the variety of forms and functions of state and local governments, with particular attention to those in Alabama and to the interactions between state and local government and the national government. Upon completion, students should be able to identify elements of and explain relationships among the state, local, and national governments of the U.S., and function as more informed participants of state and local political systems.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

Psychology

PSY 200 : GENERAL PSYCHOLOGY

The course is a survey of the scientific study of psychological, biological, and socio-cultural factors that influence behavior and mental processes.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

PSY 210 : HUMAN GROWTH AND DEVELOPMENT

This course is a study of the physical, cognitive, social, and emotional factors that affect human growth and development from conception to death.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Religious Studies

REL 100 : HISTORY OF WORLD RELIGIONS

This course is designed to acquaint the student with the beliefs and practices of the major contemporary religions of the world. This includes the religions of Africa, the Orient, and the western world. The student should have an understanding of the history and origins of the various religions in the world.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

REL 151 : SURVEY OF THE OLD TESTAMENT

This course is an introduction to the content of the Old Testament with emphasis on the historical context and contemporary theological and cultural significance of the Old Testament. The student should have an understanding of the significance of the Old Testament writings upon completion of this course.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

REL 152 : SURVEY OF THE NEW TESTAMENT

This course is a survey of the books of the New Testament with special attention focused on the historical and geographical setting. The student should have an understanding of the books of the New Testament and the cultural and historical events associated with these writings.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

Salon and Spa Management

SAL 133 : SALON MANAGEMENT TECHNOLOGY

This course is designed to develop entry-level management skills for the beauty industry. Topics include job-seeking, leader and entrepreneurship development, business principles, business laws, insurance, marketing, and technology issues in the workplace. Upon completion, the student should be able to list job-seeking and management skills and the technology that is available for use in the salon. NDC

Credits 3

Prerequisites

As required by program

SAL 201 : ENTREPRENEURSHIP FOR SALON/SPA

This course covers the important issues and critical steps involved in starting a new business from scratch. Topics covered include developing a business plan, creating a successful marketing strategy, setting up the legal basis for business, raising start-up funds, attracting and managing human resources, managing costs, and developing a customer base.

Credits 3

Prerequisites

As required by program

Sociology

SOC 200 : INTRODUCTION TO SOCIOLOGY

This course is an introduction to the vocabulary, concepts, and theory of sociological perspectives of human behavior.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

SOC 210 : SOCIAL PROBLEMS

This course examines the social and cultural aspects, influences, incidences and characteristics of current social problems in light of sociological theory and research.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisite Courses

[SOC 200: INTRODUCTION TO SOCIOLOGY](#)

Spanish

SPA 101 : INTRODUCTORY SPANISH I

This course provides an introduction to Spanish. Topics include the development of basic communication skills and the acquisition of basic knowledge of the cultures of Spanish-speaking areas.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

SPA 102 : INTRODUCTORY SPANISH II

This continuation course includes the development of basic communication skills and the acquisition of basic knowledge of the cultures of Spanish-speaking areas.

Credits 4

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[SPA 101](#) or equivalent

SPA 201 : INTERMEDIATE SPANISH I

This course includes a review and further development of communication skills. Topics include readings of literary, historical, and/or cultural texts.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[SPA 102](#) or equivalent

SPA 202 : INTERMEDIATE SPANISH II

This continuation course includes a review and further development of communication skills. Topics include readings of literary, historical, and/or cultural texts.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

[SPA 201](#) or equivalent

Speech

SPH 106 : FUNDAMENTALS OF ORAL COMMUNICATION

This is a performance course that includes the principles of human communication: intrapersonal, interpersonal, and public. The course surveys current communication theory and provides practical application for workforce readiness.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

SPH 107 : FUNDAMENTALS OF PUBLIC SPEAKING

This course explores principles of audience and environment analysis as well as the actual planning, rehearsing, and presenting of formal speeches to specific audiences. Historical foundations, communication theories, and student performances are emphasized.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Theater Arts

THR 113 : THEATER WORKSHOP I

These courses provide practical experience in the production and performance of a dramatic presentation with assignments in scenery, lighting, props, choreography, sound, costumes, make-up, publicity, acting, directing, and other aspects of theater production.

Credits 2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

THR 114 : THEATER WORKSHOP II

These courses provide practical experience in the production and performance of a dramatic presentation with assignments in scenery, lighting, props, choreography, sound, costumes, make-up, publicity, acting, directing, and other aspects of theater production.

Credits 2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

THR 115 : THEATER WORKSHOP III

These courses provide practical experience in the production and performance of a dramatic presentation with assignments in scenery, lighting, props, choreography, sound, costumes, make-up, publicity, acting, directing, and other aspects of theater production.

Credits 2

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

THR 120 : THEATER APPRECIATION

This course is designed to increase appreciation of contemporary theater. Emphasis is given to the theater as an art form through the study of history and theory of drama and the contributions to modern media. Emphasis of playwright, actor, director, designer and technician to modern media. Attendance at theater production may be required.

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

THR 124 : THEATER TECHNOLOGY SCENERY & LIGHTING

Scenic construction techniques and execution of stage lighting via lectures, demonstrations, and practical application. Emphasis in tools, materials, and procedure.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

THR 126 : INTRODUCTION TO THEATER

This course is designed to teach the history of the theater and the principles of drama. It also covers the development of theater production and the study of selected plays as theatrical presentations. CORE

Credits 3

Transfer Code Designation

A - AGSC approved transfer courses in Areas I – IV that are common to all institutions.

Prerequisites

As required by program

THR 131 : ACTING TECHNIQUES I

This is the first of a two-course sequence in which the student will focus on the development of the body and voice as the performing instruments in acting. Emphasis is placed on pantomime, improvisation, acting exercises, and building characterizations in short acting scenes.

Credits 3

Transfer Code Designation

B - Area V courses that are deemed appropriate to the degree and pre-major requirements of individual students.

Prerequisites

As required by program

THR 132 : ACTING TECHNIQUES II

This course is a continuation of [THR 131](#).

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisite Courses

THR 131: ACTING TECHNIQUES I

THR 216 : THEATRICAL MAKE-UP

This course is a study of the materials and techniques of theatrical make-up.

Credits 2

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

THR 221 : SCENOGRAPHIC TECHNIQUES

This course includes practical work developing proficiency in drafting technical drawings for the stage, including ground plans, elevations, and orthographic and isometric drawings. The course also includes the study and application of the elements of design as relevant tools to theatrical design, including the roles of scenic, lighting, and costume designer and their relationship with the director.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

THR 224 : SCENE PAINTING

Historic and contemporary methods of painting scenery for the stage. Includes practical application of techniques in the scenic studio.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

THR 236 : STAGECRAFT

This course is a study of the principles, techniques, and materials in theatrical scenery and lighting.

Credits 3

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

THR 296 : DIRECTED STUDIES IN THEATER

This course deals with problems in theater and art management. Problems may be arranged in conjunction with other disciplines in the Fine Arts.

Credits 2

Transfer Code Designation

C - Potential Area V transfer courses that are subject to approval by respective receiving institutions.

Prerequisites

As required by program

Welding

WDT 108 : SMAW FILLET/OFC

This course provides the student with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of oxy-fuel cutting. This is a CORE course.

Credits 3

Prerequisites

As required by college

WDT 109 : SMAW FILLET/PAC/CAC

This course provides the student with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of carbon arc cutting and plasma arc cutting. This is a CORE course.

Credits 3

Prerequisites

As required by college

WDT 110 : INDUSTRIAL BLUEPRINT READING

This course provides students with the understanding and fundamentals of industrial blueprint reading. Emphasis is placed on reading and interpreting lines, views, dimensions, weld joint configurations and weld symbols. Upon completion students should be able to interpret welding symbols and blueprints as they apply to welding and fabrication. This is a CORE course.

Credits 3

Prerequisites

As required by college

WDT 115 : GTAW CARBON PIPE

This course is designed to provide the student with the practices and procedures of welding carbon pipe using the gas tungsten arc weld (GTAW) process. Emphasis is placed on pipe positions, filler metal selection, purging gasses, joint geometry joint preparation and fit-up. Upon completion, students should be able to identify pipe positions, filler metals, purging gas, proper joint geometry, joint preparation and fit-up to the applicable code.

Credits 3

Prerequisites

As required by college

WDT 116 : GTAW STAINLESS PIPE

This course is designed to provide the student with the practices and procedures of welding stainless steel pipe using the gas tungsten arc weld (GTAW) process. Emphasis is placed on pipe positions, filler metal selection, purging gasses, joint geometry, joint preparation and fit-up. Upon completion, students should be able to identify pipe positions, filler metals, purging gas, proper joint geometry, joint preparation, and fit-up to the applicable code.

Credits 3

Prerequisites

As required by college

WDT 119 : GAS METAL ARC/FLUX CORED ARC WELDING

This course introduces the student to the gas metal arc and flux cored arc welding process. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification, various welding techniques and base and filler metal identification. This is a CORE course.

Credits 3

Prerequisites

As required by college

WDT 120 : SHIELDED METAL ARC WELDING GROOVE

This course provides the student with instruction on joint design, joint preparation, and fit-up of groove welds in accordance with applicable welding codes. Emphasis is placed on safe operation, joint design, joint preparation, and fit-up. Upon completion, students should be able to identify the proper joint design, joint preparation and fit-up of groove welds in accordance with applicable welding codes. This is a CORE course.

Credits 3

Prerequisites

As required by college

WDT 122 : SMAW FILLET/OFC LAB

This course is designed introduce the student to the proper set-up and operation of the shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc, and proper fit up of fillet joints. This course is also designed to instruct students in the safe operation of oxy-fuel cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F- 3 groups in accordance applicable welding code and be able to safely operate oxy-fuel equipment and perform those operations as per the applicable welding code.

Credits 3

Prerequisites

As required by college

WDT 123 : SMAW FILLET/PAC/CAC LAB

This course is designed introduce the student to the proper set-up and operation of the shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc, and proper fit up of fillet joints. This course is also designed to instruct students in the safe operation of plasma arc and carbon arc cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F-4 groups in accordance with applicable welding code and be able to safely operate plasma arc and carbon arc equipment and perform those operations as per applicable welding code.

Credits 3

Prerequisites

As required by college

WDT 124 : GAS METAL ARC/FLUX CORED ARC WELDING LAB

This course provides instruction and demonstration using the various transfer methods and techniques to gas metal arc and flux cored arc welds. Topics included are safety, equipment set-up, joint design and preparation, and gases.

Credits 3

Prerequisites

As required by college

WDT 125 : SHIELDED METAL ARC WELDING GROOVE LAB

This course provides instruction and demonstrations in the shielded metal arc welding process on carbon steel plate with various size F3 and F4 group electrodes in all positions. Emphasis is placed on welding groove joints and using various F3 and F4 group electrodes in all positions. Upon completion, the student should be able to make visually acceptable groove weld joints in accordance with applicable welding codes.

Credits 3

Prerequisites

As required by college

WDT 155 : GTAW CARBON PIPE LAB

This course is designed to provide the student with the skills in welding carbon steel pipe with gas tungsten arc welding techniques in various pipe weld positions. Upon completion, students should be able to perform gas tungsten arc welding on carbon steel pipe with the prescribed filler metals in various positions in accordance with the applicable code.

Credits 3

Prerequisites

[WDT 115](#) and/or as required by college

WDT 156 : GTAW STAINLESS PIPE LAB

This course is designed to provide the student with the skills in welding stainless steel pipe with gas tungsten arc welding techniques in various pipe weld positions. Upon completion, students should be able to perform gas tungsten arc welding on stainless steel pipe with the prescribed filler metals in various positions in accordance with the applicable code.

Credits 3

Prerequisites

[WDT 116](#) and/or as required by college

WDT 157 : CONSUMABLE WELDING PROCESSES

This course provides instruction and demonstration with the consumable welding processes to produce groove and fillet welds in all positions, according to applicable welding codes. Topics include safe operating practices, equipment identification, equipment set-up, correct selection of electrode, current/polarity, shielding gas and base metals.

Credits 3

Prerequisites

As required by college

WDT 158 : CONSUMABLE WELDING PROCESSES LABS

This course provides instruction and demonstration with the consumable welding processes to produce groove and fillet welds in all positions, according to applicable welding codes. Topics include safe operating practices, equipment identification, equipment set-up, correct selection of electrode, current/polarity, shielding gas and base metals. Upon completion, the student should be able to produce groove and fillet welds using consumable welding processes according to AWS Codes and standards.

Credits 3

Prerequisites

[WDT 157](#) and/or as required by college

WDT 160 : ROBOTICS LAB I

This course is the practical application of robotics theory. Students will complete machine origins, robotic programming, robotic welding parameters, link programs to create jobs, and allocate a weave start.

Credits 3

Prerequisites

As required by college

WDT 166 : FLUX CORE ARC WELDING

This course provides instruction and demonstration with the flux core arc welding process to produce groove and fillet welds in all positions, according to applicable welding codes. Topics include safe operating practices, equipment identification, equipment set-up, correct selection of filler metals, current/polarity, shielding gas and base metals. Upon completion, the student should be able to produce groove and fillet welds using the FCAW welding process, according to AWS Codes and Standards.

Credits 3

Prerequisites

As required by college

WDT 167 : FLUX CORE ARC WELDING LAB

This course provides instruction and demonstration with the flux core arc welding process to produce groove and fillet welds in all positions, according to applicable welding codes. Topics include safe operating practices, equipment identification, equipment set-up, correct selection of filler metals, current/polarity, shielding gas and base metals. Upon completion, the student should be able to produce groove and fillet welds using the FCAW welding process, according to AWS Codes and Standards.

Credits 3

Prerequisites

As required by college

WDT 180 : SPECIAL TOPICS

This course allows the student to plan, execute, and present results of individual projects in welding. Emphasis is placed on enhancing skill attainment in the welding field. The student will be able to demonstrate and apply competencies identified and agreed upon between the student and instructor.

Credits 3

Prerequisites

As required by college

WDT 181 : SPECIAL TOPICS LAB

This course provides specialized instruction in various areas related to the welding industry. Emphasis is placed on meeting students needs.

Credits 3

Prerequisites

As required by college

WDT 217 : SMAW CARBON PIPE

This course introduces the student to the practices and procedures of welding carbon steel pipe using the shielded metal arc weld (SMAW) process. Emphasis is placed on pipe positions, electrode selection, joint geometry, joint preparation and fit-up. Upon completion, students should be able to identify pipe positions, electrodes, proper joint geometry, joint preparation, and fit-up in accordance with applicable codes.

Credits 3

Prerequisites

As required by college

WDT 218 : CERTIFICATION

This course is designed to provide the student with the knowledge needed to perform welds using the prescribed welding process. Emphasis is placed on the welding test joints in accordance with the prescribed welding code. Upon completion, students should be able to pass an industry standard welding test in accordance with various applicable welding code requirements.

Credits 3

Prerequisites

As required by college

WDT 219 : WELDING INSPECTION AND TESTING

This course provides the student with inspection skills and knowledge necessary to evaluate welded joints and apply quality control measures as needed. Emphasis is placed on interpreting welding codes, welding procedures, and visual inspection methods. Upon completion, students should be able to visually identify visual acceptable weldments as prescribed by the code or welding specification report.

Credits 3

Prerequisites

As required by college

WDT 221 : PIPE FITTING AND FABRICATION

This course provides the student with skills and practices necessary for fabricating pipe plans using pipe and fittings. Emphasis is placed on various pipe fittings to include various degree angles. Upon completion, students should be able to fit various pipe fittings, and cut and fabricate tees, and assorted angles.

Credits 3

Prerequisites

As required by college

WDT 223 : BLUEPRINT READING FOR FABRICATION

This course provides a student with advanced skills in identifying and interpreting lines, views, dimensions, notes, bill of materials, and the use of tools of the trade. Emphasis is placed on figuring dimensional tolerances, tolerances, layout and fitting of different component parts. Upon course completion, a student should be able to interpret, layout, and fabricate from blueprints to given tolerances.

Credits 3

Prerequisites

As required by college

WDT 228 : GAS TUNGSTEN ARC WELDING

This course provides student with knowledge needed to perform gas tungsten arc welds using ferrous and/or non-ferrous metals, according to applicable welding codes. Topics include safe operating practices, equipment identification and set-up, correct selection of tungsten type, polarity, shielding gas and filler metals. Upon completion, a student should be able to identify safe operating practices, equipment identification and setup, correct selection of tungsten type, polarity, shielding gas, filler metals, and various welds on ferrous and/or non-ferrous metals, using the gas tungsten arc welding process according to applicable welding codes.

Credits 3

Prerequisites

As required by college

WDT 229 : BOILER TUBE

This course is designed to provide the student with the practices and procedures of welding boiler tubes using the gas tungsten arc and shielded metal arc welding process to the applicable code. Emphasis is placed on tube fit-up, tube welding technique, and code requirements. Upon completion, students should be able to identify code requirements and tube welding technique.

Credits 3

Prerequisites

As required by college

WDT 257 : SMAW CARBON PIPE LAB

This course is designed to provide the student with the skills in welding carbon steel pipe with shielded metal arc welding techniques in various pipe welding positions. Upon completion, students should be able to perform shielded metal arc welding on carbon steel pipe with the prescribed electrodes in various positions in accordance with the applicable codes.

Credits 3

Corequisites

[WDT 217](#) and/or as required by college.

WDT 258 : CERTIFICATION LAB

This course is designed to provide the student with the skills needed to perform welds using the prescribed welding process. Emphasis is placed on the welding test joints in accordance with the prescribed welding code. Upon completion, students should be able to pass an industry standard welding test in accordance with various welding code requirements.

Credits 3

Prerequisites

[WDT 218](#) and/or as required by college

WDT 268 : GAS TUNGSTEN ARC LAB

This course provides student with skills needed to perform gas tungsten arc welds using ferrous and/or non-ferrous metals, according to applicable welding codes. Topics include safe operating practices, equipment identification and set-up, correct selection of tungsten type, polarity, shielding gas and filler metals. Upon completion, a student should be able to identify safe operating practices, equipment identification and setup, correct selection of tungsten type, polarity, shielding gas, filler metals, and various welds on ferrous and/or non-ferrous metals, using the gas tungsten arc welding process according to applicable welding codes.

Credits 3

Prerequisites

[WDT 228](#) and/or as required by college

WDT 269 : BOILER TUBE LAB

This course is designed to provide the student with the skills in welding boiler tubes using the gas tungsten arc and shielded metal arc welding process using filler metals in the F6 and F4 groups to applicable code. Emphasis is placed on welding boiler tubes using the gas tungsten arc and shielded metal arc welding process in the 2G and 6G positions in accordance with the applicable code. Upon completion, students should be able to perform gas tungsten arc and shielded metal arc welding on boiler tubes with the prescribed filler metals in the 2G and 6G positions to the applicable code.

Credits 3

Prerequisites

[WDT 229](#) and/or as required by college

Workplace Skills Enhancement

WKO 106 : WORKPLACE SKILLS

This course emphasizes the foundational information to develop knowledge and skills to prepare individuals for employment following completion of technical and academic programs. At the conclusion of this course, students will have knowledge and skills relevant to work ethic, communication, resume writing, job interviewing, dress and appearance, behavior, problem solving, decision making, and project management. Students will receive an National Career Readiness Certificate, an assessment-based credential, that gives students a measure of key workplace skills, as well as an OS HA 10-hour certification in General Industry Safety and Health.

Credits 3

Prerequisites

As required by program

WKO 110 : NCCER CORE

This course is designed to provide students with knowledge and skills related to multi-craft technicians in a variety of fields. Information in this course is based on the National Center for Construction Education and Research (NCCER) core curriculum and prepares students to test for the NCCER credential. tolerances, layout and fitting of different component parts. Upon course completion, a student should be able to interpret, layout, and fabricate from blueprints to given tolerances.

Credits 3

WKO 131 : MSSC SAFETY COURSE

This course is designed to provide students with knowledge and skills related to safety in a manufacturing environment. Students completing this course will be eligible to test for the IvSSC Safety Certification. Students completing courses WKO 131, 132, 133 and 134 will be eligible to test for the Certified Production Technician credential.

Credits 3

Prerequisites

As required by program

WKO 132 : MSSC QUALITY PRACTICES AND MEASUREMENT

This course is designed to provide students with knowledge and skills related to quality practices in a manufacturing environment. Students completing this course will be eligible to test for the IvESC Quality Practices and Measure merit Certification. Students completing courses [WKO 131](#), 132, 133 and 134 will be eligible to test for the Certified Production Technician credential.

Credits 3

Prerequisite Courses

[WKO 131: MSSC SAFETY COURSE](#)

WKO 133 : MSSC MANUFACTURING PROCESSES AND PRODUCTION

This course is designed to provide students with knowledge and skills related to manufacturing practices in a manufacturing environment. Students completing this course will be eligible to test for the IvSSC Manufacturing Processes and Production Certification. Students completing courses [WKO 131](#), 132, 133 and 134 will be eligible to test for the Certified Production Technician credential.

Credits 3

Prerequisite Courses

[WKO 131: MSSC SAFETY COURSE](#)

WKO 134 : MSSC MAINTENANCE AWARENESS

This course is designed to provide students with knowledge and skills related to maintenance practices in a manufacturing environment. Students completing this course will be eligible to test for the IvESC Maintenance Awareness Certification. Students completing courses [WKO 131](#), 132, 133 and 134 will be eligible to test for the Certified Production Technician credential.

Credits 3

Prerequisite Courses

[WKO 131: MSSC SAFETY COURSE](#)