CROWDER COLLEGE

Course Catalog 2019-2020

Established by the Community College District of Newton-McDonald Counties, 1963

Version 1.04

General Information 2019-20

General Information 2019-20

Neosho (Main Campus)

601 Laclede, Neosho MO 64850
Admissions 1-866-238-7788 (toll-free)
(417) 451-3223, Main Campus Switchboard

Cassville Instruction Center

4020 North Main Street, Cassville MO 65625 Phone: (417) 847-1706 Fax: (417) 847-1367

McDonald County Instruction Center

194 College Road, Pineville MO 64856 Phone: (417) 226-6000 Fax: (417) 226-6009

Nevada Instruction Center

600 West Edwards Place, Nevada MO 64772 Phone: (417) 667-0518 Fax: (417) 667-0536

Webb City Instruction Center

600 S. Ellis, Webb City MO 64870 Phone: (417) 673-2345 Fax: (417) 673-2300

Crowder College also offers classes at the following training center:

Joplin

Advanced Training & Technology Center (ATTC)
402 Grand Ave, Joplin MO 64801
(417) 680-3202 or (417) 592-2940

An Equal Opportunity/Affirmative Action Institution

Crowder College | 2019-2020 CALENDAR

AUGUST 2019 S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 SEPTEMBER 2019	19 20 23 28 28	FALL 2019 Semester Classes begin Enrollments Ends – 1st 8 wk Enrollment Ends – 16 wk 100% Tuition & Fees Refund ends – 1st 8 wk Labor Day – College closed 50% Tuition & Fees Refund ends		JANUARY 2020 S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 13 14 17 20 23 28	SPRING 2020 Semester New Year's Day - College closed Classes begin - 16 wk & 1st 8 wk Enrollment Ends - 1st 8 wk Enrollment Ends - 16 wk Martin Luther King Day - College closed 100% Tuition & Fees Refund ends - 1st 8wk 50% Tuition & Fees Refund ends - 1st 8 wk 100% Tuition & Fees refund ends - 1st 8 wk
S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 29 27 28 29 30	9 9 17 27 27	- 1st 8 wk 100% Tuition & Fees Refund ends - 16 wk 100% Book Return ends - 16wk & 1st 8 wk 50% Tuition & Fees Refund ends - 16 wk Last day to withdraw - 1st 8 wk College Offices close @ Noon		S M T W Th F S L L L L 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	3 11 17 22 24	100% Book buy-back ends – 16 & 1st 8 wk 50% Tuition & Fees Refund ends— 16 wk Presidents' Day College Closed (Twilight & Evening classes meet) -28 Course evals – 1st 8 wk Last day to withdraw – 1st 8 wk
S M T W Th F S	10 11 14 15 23 23 28 29	- 4 course evaluations open – 1st 8 wk Finals – 1st 8 wk Fall Break – College closed Classes begin – 2nd 8 wk Enrollment Ends – 2nd 8 wk 100% Tuition & Fees Refund ends – 2nd 8 wk 100% Book Return ends – 2nd 8 50% Tuition & Fees Refund ends – 2nd 8 wk Priority Enrollment— Sophomores 30 hours plus completed Priority Enrollment—Freshmen 1- 29 hours completed		MARCH 2020 S M T W Th F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 S S S S S S S S S	6 9 13 16 17 25 25 30 30	Finals - 1st 8 wk - 15 Spring Break – No Classes College Closed Classes begin - 2nd 8 wk Enrollment ends – 2nd 8 wk 100% Tuition & Fees Refund ends – 2nd 8 wk 100% Book Buyback ends – 2nd 8 wk 50% Tuition & Fees Refund ends— 2nd 8 wk -31 Priority Enrollment Sophomores—30 hours plus completed
S M T W Th F S J J J J L J L J L J L J J L J J J L J	1 4-8 6 11 20 27-29	closed		APRIL 2020 S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 .	1 1 6 10 13 13 18 24 25	Financial Aid Priority Deadline for -3 Priority Enrollment—Freshmen 1- 29 hours completed -9 Priority Enrollment Crowder Good Friday—College closed Last day to withdraw – 16 wk Open Enrollment -24 Course Evals open—16 wk & 2nd 8 wk Last day to withdraw – 2nd 8 wk -May 1—Course evals open—16 wk & 2nd 8 wk
DECEMBER 2019 S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	9-12 14 23	FINALS – 16 wk & 2 nd 8 wk Graduation - Jan 1 Winter Break – College closed	120	MAY 2020 S M T W Th F S 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	4 8 9 25	- 8 FINALS – 16 wk FINALS—2nd 8 wk Graduation Memorial Day – College Closed
JUNE 2020	1	Classes begin – 1st 4 & 8 wk Enrollment ends – 1st 4 wk	,20	JULY 2020	1	Financial Aid Priority Deadline for
S M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 4 8 10 10 13 15	Enrollment ends – 8 wk 100% Tuition & Fees Refund – 1st 4 wk 50% Tuition & Fees Refund ends – 1st 4 wk 100% Tuition & Fees Refund ends – 8 wk 100% Book Return ends – 8 wk & 1st 4 wk - 19 Course evals open – 1st 4 wk 50% Tuition & Fees Refund – 8 wk		S M T W Th F S I 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	2 3 7 10 20 11 24	fall 100% Tuition & Fees Refund – 2nd 4 wk 100% Book Return ends – 2nd 4 wk Independence Day – College Closed 50% Tuition & fees refund ends– 2nd 4 wk Last day to withdraw – 8 wk Last day to withdraw—2nd 4 wk -17 Course evals open – 2nd 4 wk & 8 wk FINALS – 8 wk & 2nd 4 wk
General Information	26	Last day to withdraw – 1st 4 wk FINALS – 1st 4 wk 2	V1	.04		2019-20

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AN INTRODUCTION TO CROWDER COLLEGE

Crowder Mission & Vision

Crowder College: Building a civil, serving, literate, learning community of responsible citizens.

Academic Integrity

Crowder College is built on a foundation of academic integrity. The Crowder College Board of Trustees, faculty, and staff have developed nine *Student Abilities* that are advanced across the curriculum. One of these Student Abilities is Ethical Decision Making. Ethical Decision Making is "the selection of courses of action in accordance with principles or standards of right or good conduct." An academic community assumes the standards of right or good conduct also apply to school work. The most common forms of academic dishonesty are cheating and plagiarism. Examples of cheating and plagiarism are provided in this policy as a means of helping to define expectations. The examples are not exhaustive and should not be viewed as such.

CHEATING

Cheating is defined as obtaining or attempting to obtain, or aiding another to obtain credit for work, or any improvement in evaluation of performance, by any dishonest or deceptive means. Cheating may include:

- obtaining a copy of an examination before it is given.
- using a personal electronic device not allowed by the instructor.
- collaborating with others on assignments without the consent of the instructor.
- collaborating with others to enable cheating.
- having another person take an exam for you.
- fabricating information such as data for a lab report.
- submitting material that is not yours as part of your course performance.
- communicating with anyone other than a proctor or instructor during an exam.
- sharing your assignments or exams with other students.
- writing a paper for another student.

Penalties for cheating are as follows: first offense, a grade of zero on the assignment; second offense, failing grade in the class where the second offense occurred; third offense, suspension from Crowder College.

PLAGIARISM

Plagiarism is the use of another person's words or ideas without giving that person appropriate credit. Academic work is evaluated on the assumption that the work presented is the student's own. Plagiarism may include directly quoting the words of others without proper credit given to them and/or without using quotation marks or other accepted notations to identify the borrowed words. Plagiarism can also be simply using any prior work produced by the student for another course without prior approval from the current instructor.

Types of actions defined as plagiarism:

- Using a direct quote from a source and not using quotation marks, in-text citation, and reference.
- Paraphrasing a source and not using in-text citation and reference.
- Submitting papers, assignments, or exams that were completed by another student, or arranging for another person to complete your assignments for you.
- Selling or purchasing (or copying) papers, assignments, or exams from any website that buys or sells them. This also applies if only partially used in student submission.
- Citing a source with fake bibliographical information.
- Submitting a paper, assignment, quiz or exam that you submitted in a previous and/or concurrent class without requesting and receiving in writing prior permission from your instructor(s). This also applies to "revising" papers, assignments, quizzes or exams that were previously submitted in any course where credit was received or any course which was previously failed or from which you withdrew, even if it is the same course as your current registration.
- Copying an image, audio, video, spreadsheet, PowerPoint presentation, etc., without proper citation and reference.
- Working in a group effort without prior written faculty consent.

- Altering any information on forms or emails after the original has been submitted.
- Using or disseminating materials to third-party websites that buy or sell course work

Penalties for plagiarism are as follows: first offense, a grade of zero on the assignment; second offense, failing grade in the class where the second offense occurred; third offense, suspension from Crowder College.

Academic Philosophy

Crowder College believes all students have the potential to learn, grow, become successful lifelong learners and be productive members of the community. Servant Leadership, the cornerstone principle of the Robert K. Greenleaf Center, is highly valued and routinely modeled. In a climate of intellectual freedom, Crowder College strives to develop each individual's ability to master the content of offerings, make ethical decisions, develop analytical skills, cultivate physical health and well-being, foster self-worth, and learn the value of working together while serving others.

General Education Philosophy

General Education core requirements will prepare Crowder College students for a life of critical thinking, foundational knowledge, effective communication, and informed action. Students should learn to interact constructively with people from diverse backgrounds, to understand differing viewpoints, and to identify and resolve ethical issues. The General Education core classes help students to become responsible participants in a democratic society and to meet changes and challenges in their personal, social, educational, and professional lives.

The General Education Core is composed of six category areas consisting of Communications, Humanities, Mathematics, Physical Education, Science, and Social and Behavior Sciences. The philosophy statements for those categories are as follows:

Communications

Crowder College recognizes and understands the central role that communication plays in both learning and life. We focus our communication course offerings on teaching the principles of clear and effective oral and written communication and provide opportunities to practice and refine these principles and skills. Our goal is for students to be able to listen effectively and write and speak with clarity, coherence,

cogency, and ethical integrity.

Humanities

The humanities study aspects of human culture and how people process and document the experience. Humanistic methods are used to study philosophy, literature, religion, fine arts, history, language, and other humanistic content. These courses are included in Crowder College's core curriculum to expand students' knowledge of human cultures or conditions in relation to behaviors, ideas, and values expressed in works of imagination and thought.

Mathematics

Mathematics is a discipline that seeks to understand the patterns and structures of the world around us through logical thinking and reasoning. The goal of courses under the category of Mathematics is for students develop the ability to think creatively, critically, strategically, and logically. The students learn to structure and to organize, to carry out procedures flexibly and accurately, and to process and communicate information. Students can then use these abilities to effectively problem solve in a variety of contexts.

Physical Education

Physical Education provides the opportunity to teach students about movement, teamwork, problem solving, and health related fitness. Exposing students to various physical activities builds social, emotional, intellectual, psychomotor, and cognitive skills. Physical Education classes teach the importance of physical activity for the general well-being of students and help instill a positive attitude toward a healthy, physically active lifestyle.

Science

Scientific knowledge, the process of scientific inquiry, and the values of honesty and integrity in science are fundamentally important to the well-being of humanity and the well-being of the greater natural world. The science departments at Crowder College believe an education that teaches these core scientific principles, as well as general knowledge in each specific discipline, is an important tool in helping our students become better citizens. All the many branches of science are unified by these core principles. The goals of our general education courses in the sciences are for our students to comprehend and apply these basic principles and general knowledge in their thoughts and their actions.

Social & Behavioral Sciences

Social and Behavioral Science courses are dedicated to understanding human behavior through an examination of our mind, our society, and our history. Students are prepared for an increasingly interconnected world made up of a diverse and everchanging population. These courses assist students in obtaining career goals, developing interpersonal relationships, contributing to their community, and functioning as citizens in society. Crowder College seeks to help students develop a deeper understanding of the relationship of self and society through the investigation of cultural, economic, political, religious, and social influences that shape human ideals and behaviors.

Affiliation and Accreditation

Crowder College is accredited by the Missouri Department of Elementary and Secondary Education and the coordinating Board for Higher Education. The College is also fully accredited by the Higher Learning Commission, a member of the North Central Association. The Higher Learning Commission, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602 -2504 Phone: (312) 263-0456.

Graduates of the Associate of Arts programs are admitted without examination to junior standing in all public universities and colleges in Missouri and many outside the state of Missouri. Crowder is an active member of the Missouri Community College Association and the American Association of Community Colleges.

The following degree programs have obtained accreditation, are in the process of receiving accreditation, or participate in approved curriculum:

Auto Technology – National Automotive Technicians Education Foundation (NATEF) and the Society of Automotive Excellence (ASE), Expires November 2021

Computer Networking – Active Participation with Cisco Certified Academy through Cisco Systems since 2001

Nursing – Missouri State Board of Nursing, Accreditation Commission for Education in Nursing (ACEN)

Occupational Therapy Assistant – Accreditation Council for Occupational Therapy Education (ACOTE)

Paramedic – Committee on Accreditation of Educational Programs for Emergency Medical Services Professions (CoAEMSP), Expires January 2023; State of Missouri, Bureau of EMS Division (BEMS)

Veterinary Technology – American Veterinary Medical Association (AVMA), Expires 2018

Welding – Participation in the American Welding Society's SENSE (Schools Excelling through National Skills Standards Education)

Student Abilities

Nine student "abilities" have been identified from the Crowder College Mission Statement. Faculty are expected to teach beyond academics and basic skills to ensure that students develop abilities in these areas. There is a matrix that has been developed to show which courses address the student abilities. The definitions for these abilities are as follows:

COMMUNICATION

Communication is the process by which a thought or impression is effectively moved through its unique mode from one person or source to another.

CULTURAL AWARENESS

Cultural Awareness is the recognition of, and the appreciation for, the history, customs, lore, skills, arts, observances and beliefs of a people and how these components meet basic human needs in response to a changing environment.

ENVIRONMENTAL AWARENESS

Environmental Awareness is an understanding of the external conditions that influence growth and development and how human choices influence the relationship between living beings, their surroundings and their quality of life.

ETHICAL DECISION MAKING

Ethical Decision Making is the selection of courses of action in accordance with principles or standards of right or good conduct.

MANAGING INFORMATION

Managing information is the ability to access, utilize, implement, and store information from electronic and other sources in order to make informed decisions, present information, and solve problems.

PHYSICAL AND EMOTIONAL HEALTH

Health is a condition of physical and emotional wellbeing of the individual, which is achieved through competent self-care and satisfying relationships with others.

• PROBLEM SOLVING

Problem Solving is the process of identifying an obstacle or dilemma, using critical thinking strategies

and decision making skills, and applying appropriate measures needed to overcome or resolve the obstacle or dilemma.

RESPONSIBLE CITIZENSHIP

Citizenship refers to the relationship between an individual and the community to which he or she belongs. Responsible citizenship involves the recognition of the inseparable rights and duties associated with membership in this community. It also requires accountability and meaningful participation in public decision making and obligations of life in this community.

SELF-ASSESSMENT

Self-assessment is a process of determining one's level of functioning, both strengths and weaknesses. It precedes the final decision-making stage of evaluation, focusing upon a number of variables judged to be important, and using a number of techniques to provide authentic and meaningful feedback for improvement.

ADMISSION

General Admission Requirements

Individuals who submit the following documents:

- 1. Application for admission with the required \$25 application fee.
- 2. All high school and college transcripts (see transcript policy).
- Certificate of home school completion or certificate of high school equivalency.

A student is not permitted to enroll for or accumulate more than six (6) credit hours until s/he graduates from high school or completes a home school program or a high school equivalency exam (unless eligible for Dual Credit and Dual Enrollment Admission).

Students wishing to enter a program leading to a field that requires a license or certification should be aware that certain criminal convictions may restrict the individual's ability to obtain professional licensure or certification.

Prior criminal convictions or pending criminal charges do not exclude admission to the College, although admission may be deferred or denied to individuals whom the College considers to be a potential danger to the safety, security, and educational environment of the College. In order to fully evaluate applicants, to help foster a safe learning environment, and to comply with applicable law regarding financial aid, the College requires those applicants who have been convicted of certain crimes or who have pending criminal charges, to disclose this information at the time of application or reapplication. Failure to disclose a criminal conviction or pending criminal charge may result in the student being immediately withdrawn from current classes and may result in disciplinary action including dismissal or expulsion, as outlined in the Student Code of Conduct. Applicants may also be restricted from living in the college residence halls.

College Orientation (COLL 101)

Degree and certificate seeking students must complete COLL 101, in their first semester at Crowder, if required by the degree or certificate they have declared. Non-degree seeking students are not required to take COLL 101. However, if students become degree or certificate seeking and the degree or certificate requires the class, they will be required to successfully complete the course. Transfer students who have successfully completed an equivalent college orientation class at another institution or have a cumulative grade point average of 2.0 on a minimum of 12 credit hours earned after high school graduation are exempt from COLL 101. The course is designed to aclimate new students to the Crowder College environment, provide them with information they will need to function as a Crowder College student, and encourage further evaluation of their character. Recommend taking course on ground.

Dual Credit/Dual Enrollment Admissions

Admission is granted to high school students, grades 9-12, who are not older than 21. Dual credit and dual enrollment (definitions on page 12) students are eligible to enroll in college courses as long as they meet the following criteria:

- Juniors and seniors with an overall minimum grade point average of 3.0 (on a 4.0 scale) and written permission from the parent/legal guardian are automatically eligible for college courses.
- Juniors and seniors with an overall grade point average between 2.5 – 2.99 (on a 4.0 scale) must provide written permission from a parent or legal guardian, and provide a signed letter of recommendation from their principal or guidance counselor.
- Sophomores with an overall minimum grade point average of 3.0 (on a 4.0 scale) must provide

- written permission from the parent/legal guardian, <u>and</u> a signed letter of recommendation from their principal or guidance counselor.
- Freshmen with an overall minimum grade point average of 3.0 (on a 4.0 scale) must provide written permission from a parent or legal guardian, and provide a signed letter of recommendation from their principal or guidance counselor. Freshmen must further demonstrate their competency by scoring at the 90th percentile or above on the ACT or SAT.

(Dual credit student eligibility requirements are mandated by Missouri Department of Higher Education).

In addition, students must meet the same requirements for placement into individual courses, (e.g., English or mathematics) as those required of all Crowder students. Dual credit and dual enrollment students must also be in compliance with all other college policies and will not be eligible to receive any form of Title IV financial aid. Only students who can provide a valid social security number are permitted to enroll in classes through Crowder College.

<u>Interested students need to submit the following</u> documentation:

- Dual Credit/Dual Enrollment Application for admission
- 2. Copy of high school transcript to verify GPA
- 3. Completed enrollment form
- 4. Parent/Legal Guardian consent form
- 5. Letters of recommendation (if applicable)
- 6. Placement scores (if applicable)

International Student Admissions Required Documentation

To complete the International Admissions Process:

- 1. Application for Admissions The application must be completed online, in English, and the application fee of \$50 must be paid.
- 2. Current Passport Scanned copy of current passport must be provided.
- High School Transcript Copy of the high school transcript, completion certificate, or leaving certificate must be provided. These documents must be officially translated through a translation company. We recommend that you use World Education Services (WES) for this service.

- 4. College Transcripts College Transcripts (in which credits were earned) must be provided in English. World Education Services (WES) should be utilized for translation to English is needed.
- 5. Financial Statement Completion of the Financial Support Application provided upon successful application submission. Financial support documents (bank statements or letters and a sponsor letter) providing proof that money exists to pay for the first year of classes. Proof of adequate funds for the duration of study should also be included.
- 6. Housing Housing accommodations, on-campus or off-campus, must be secured prior to student acceptance. Check out our Student Housing options to submit your Housing Application and the deposit if you plan to reside in one of our housing facilities. If you do not plan to live in one of our facilities, please advise the International Program Coordinator as to where you will be living.
- 7. Insurance All international students are required to have health insurance that includes medical evacuation, repatriation, and sport related injuries. Students will be required to purchase insurance through the college OR provide proof of insurance and sign a waiver of the coverage available through the college each semester in the US (including summer).
- 8. Placement Test Each student will complete a placement exam upon arrival. This exam is administered on the Crowder College campus. Results of the exam will be evaluated and supplemental instruction may be required. Student will be placed in classes based on the exam results.
- 9. Make sure that you have payment arrangements in order for your financial costs as they will be required within the first week of classes in US Dollars. Payment can be made with credit card, debit card, or cash. All students enrolled in the payment plan are subject to the payment plan rules.
- 10. You will need to pay an Emergency Travel Deposit in the amount of \$1,500 or provide proof of purchase for an open-ended, round-trip ticket (copy of ticket may be submitted to the International Office).
- 11. If accepted, you will be expected to arrive at least

three (3) days prior to the first day of the semester. You will go through placement testing, enrollment of classes, and orientation during this time.

The form I-20 will be issued after numbers 1-6 are on file and the student has been accepted for study at Crowder College. An Acceptance Letter and a letter for your Embassy will be issued to the student upon acceptance. To check on the status of your application you may contact the International Program Coordinator through email at international@crowder.edu for more information.

After receipt of your I-20 and acceptance documents you must complete the following: SEVIS FEE payment (prior to your VISA interview) and completion of your VISA interview at your Embassy.

Please NOTE: For more student VISA information please visit the United States Citizenship & Immigration Services website.

Transcript Policy

All students must submit an official transcript prior to or upon submitting application for enrollment. Unofficial transcripts will be accepted for one semester only. Students without an official transcript on file by the end of the fourth week of classes will receive a records hold on their account. Students requesting financial aid will not be eligible to receive aid for the current or subsequent terms without an official transcript on file. Transfer, degree and non-degree seeking students that do not meet the satisfactory progress standards must adhere to the Suspension Appeal policy and procedures. All students on suspension status must submit a petition for readmission to the Records Office.

Transfer Student Admissions

A student who has attended another college or university before enrollment at Crowder must provide proof that s/he was in "Good Academic and Disciplinary Standing" at the last college attended. Students with a transfer grade point average that does not meet the Crowder guidelines for Satisfactory Academic Progress will be placed on Academic Probation. Students on Academic Suspension from a previous institution will be required to meet the Crowder standards for Satisfactory Academic Progress before being allowed to enroll for classes (see Student Progress Policies). Students who are not in good disciplinary standing will be required to appeal in order to enroll for classes.

SPECIAL ADMISSION PROGRAMS

Practical Nursing

The Crowder College Practical Nursing program is a certificate that prepares students who can demonstrate entry level competencies as practical nurses, as well as provide a foundation for continued learning. Further information is available from the Crowder College Nursing Division, (417) 667-0518, ext. 5238.

Application requirements for Practical Nursing are as follows:

- 1. Must have a valid high school diploma or equivalent (such as GED or HiSet)
- 2. Complete the TEAS pre-entrance examination
- 3. Have good moral character as evidenced by references
- Verify a criminal background check free of Class A or B felony
- 5. Enroll in Family Care Safety Registry and not be on the Employee Disqualification List
- 6. Have adequate finances to complete the program and reliable transportation
- Maintain the ability to perform required functional abilities
- Eligibility to write the Licensure exam as described in Missouri Nursing Practice Act section 335.066; complete of the program does not guarantee eligibility

Registered Nursing

The Crowder College Registered Nursing program prepares graduates who can demonstrate entry level competencies as registered nurses, and provides a foundation for continued learning. The program provides a multiple entry program where licensed practical nurses can enter with advanced standing or students may enter with no previous nursing education. Further information is available from the Crowder College Nursing Department, (417) 455-5554.

Application requirements for all registered nursing students are as follows:

- 1. Be approved for admission to Crowder College
- 2. Be at least 19 years of age by completion of the program

- 3. Have a high school diploma or high school equivalency certificate
- 4. Have Certified Nurse Assistant, RMA, CMA or certification or EMT paramedic licensure prior to start of registered nursing classes.
- 5. Have a minimum GPA of 2.75 on required general education courses
- 6. Have a minimum ACT composite score of 19
- Eligibility to write the Licensure exam as described in the Missouri Nursing Practice Act section 335.066; completion of the program does not guarantee eligibility
- 8. Generic students must have completed Anatomy and Physiology I with a C or better and have a current CNA or EMT Certificate
- LPN Bridge students must have completed Anatomy and Physiology I, II, and Microbiology to be eligible for admission prior to start of registered nursing classes.
- 10. Complete application by deadline

Occupational Therapy Assistant

The Crowder College Occupational Therapy Assistant Program (OTA) prepares graduates to demonstrate as an entry level practitioner and sit for their board certification exam. Further information is available from the Allied Health Department, (417) 673-2437. Application requirements for all OTA students are as follows:

- 1. Be approved for admission to Crowder College
- 2. Complete pre-admission courses with a C or better
- 3. Have a minimum GPA or 2.5 on required general education courses
- 4. Complete application requirements
- 5. Eligibility to sit for the NBCOT (National Board of Certification Occupational Therapy) exam

Veterinary Technology

The Crowder College Veterinary Technology Program is a 78 credit hour program which is fully accredited by the American Veterinary Medical Association (AVMA) and prepares students for careers as veterinary technicians. This is a selective admission program. Applications are accepted until March 30 for the class which begins the following August. An ACT test result must accompany the application. Students must complete a minimum of BIOL 101 or BIOL 110, MATH

50 (or appropriate placement), ENGL 100 (or appropriate placement), and LOC 50 (or appropriate placement), and have worked with or observed a licensed veterinarian in practice for a minimum of 20 clock hours to be eligible for the program. To be licensed as a Registered Veterinary Technician in Missouri, a student must be at least 19 years of age, graduate from an AVMA accredited program, pass the Veterinary Technician National Examination, and pass the Missouri State Veterinary Medical Board Examination. An applicant must be approved by the Missouri State Veterinary Medical Board, or the State Veterinary Medical Board of any other state in which the student wishes to be licensed, before being allowed to sit for these examinations. For more information call 417-455-5772.

ASSESSMENT AND PLACEMENT

College Entrance and Placement Testing

To facilitate student success at Crowder College, the following guidelines have been established for enrollment in Crowder courses. Crowder College will accept the ACT and other standardized test scores for college-level placement. If a student's scores are below the required levels, s/he must take the placement test for placement purposes.

The placement test is a test for students enrolling for an English or mathematics class and to determine reading level for online courses and certain reading-intensive courses. The scores on this test are used to enroll students in appropriate levels of English, mathematics, reading, or other courses, which require a minimum score for placement. The Crowder College application fee covers the cost of the first attempt of the test. A fee will be charged for retakes. The range of scores for placement in other identified courses is available in the Student Success Center (SSC) and Testing Center. Assessment and placement guidelines have been developed, after careful consideration, to promote the greatest level of individual student success.

Students who are required to enroll in a college preparatory class (a class numbered less than 100) must maintain a grade of C or better in each of the prescribed courses in order to continue with college level coursework. Crowder College placement exams are required of all first time students who are seeking a degree, enrolling for 7 credit hours or more, or

enrolling for a course that has a placement requirement. Transfer students who have not completed their freshman requirements in English and/or math will be required to take the Crowder College placement exams or provide adequate scores. Students who have completed 6 hours will be required to take placement exams prior to enrolling in additional coursework.

The placement exam is for "placement" only. To better align Crowder College with testing regulations, a student has the option of one retake per section, per 12-month period of the placement test (Math, Reading, and Writing). Crowder College will honor the highest placement score achieved for placement in prerequisite courses for enrollment of the following semester. If a student wishes to "test out" of a class, the CLEP test is the more appropriate choice (for English or Math). Contact the Testing Center for CLEP and Testing Out opportunities.

A student cannot retake a section on the same day a test was administered. It is the experience of Testing Center that nothing is gained by immediate retakes. This however, can be appealed to the Testing Center or designated personnel at off-campus sites if dire need is demonstrated for an immediate retake.

Students may call the Testing Center at (417) 455-5433 or visit www.crowder.edu for complete placement exam information and instructions. Additional placement exam guidelines are available for review in the Testing Center, or on the Crowder website.

Advanced Placement

High school graduates participating in the College Board Advanced Placement Program and passing the final examinations with a score of 3, 4, or 5 in the following areas will receive credit for these subjects:

Class	Credit for:
Biology	BIOL 101
Calculus AB	MATH 150 & 160
Calculus BC	MATH 202
Chemistry	CHEM 111
Computer Science	COMP 111
Econ: Macro	ECON 201
Econ: Micro	ECON 202
English Lang & Comp	ENGL 101
English Lit & Comp	ENGL 101
	ENGL 109
Human Geography	GEOG 101
Political Science	PLSC 103
Psychology	PSYC 101

Spanish Langua	ıge	SPAN 101
US History		HIST 106

College Level Exam Program (CLEP)

Students who have taken CLEP tests and wish to receive credit must have scores at the 50th percentile or higher on Subject Matter exams. The College does not grant credit for the CLEP General Examinations. Credit is given only in course areas offered as part of the normal college curriculum. Financial aid is not available.

Students wishing to take CLEP exams may obtain information through the Testing Center (417) 455-5433.

Crowder College is a limited testing center.

Military Service and Training

Students with two years of verifiable active military duty will automatically be granted two (2) hours of Physical Education and two (2) hours of Health and Hygiene. Other military coursework will be evaluated individually through interviews and submission of certificates documenting successful completion. Credit is normally granted for military coursework that has a course equivalent at Crowder College and is appropriate to the student's major. Students interested in having military coursework evaluated should contact the Records Office located in Student Affairs.

Testing Out (Credit by Examination)

Credit may be granted in selected courses to entering freshmen and other students who pass appropriate departmental examinations. Students wanting to TEST OUT of a class and do so before the class begins will be charged a \$50 assessment fee. Students who pass the test at the level designated by the department in which the test is taken will be given credit for the class. Students not passing at the designated level will not receive credit and the \$50 fee is non-refundable. Students who are currently enrolled in a class and attempt to test out during the semester will still be required to pay regular tuition for that class. Scholarships do not cover tuition for credit earned through testing out.

STUDENT CLASSIFICATIONS

Degree Seeking Students

A student who has satisfied all admission requirements and is enrolled as seeking a degree or certificate.

Dual Credit/Dual Enrollment Students

Dual credit refers to college level courses taught by approved, college-qualified, high school instructors to high school students who are earning both high school credit and college credit for these courses simultaneously.

Dual enrollment refers to students concurrently enrolled in high school and at a post-secondary institution. Dually enrolled students attend classes online or at any Crowder College campus location and earn college credit. However, they may or may not earn high school credit.

International Students

A student that is a non-resident (non-immigrant) alien attending college with the purpose of returning to their homeland once their education is complete. This does not define tuition status.

Lifetime Learner Students

Students who graduated from Crowder College before 2000 with a degree or certificate are granted a tuition waiver for one class (up to five credit hours) per semester. Students who graduated in 2000 or after are granted a tuition waiver for one class (up to three credit hours) per semester. Lifetime Learner students will be responsible for books, facility use fees, online course fees, lab fees, and any other fees associated with the class. The Lifetime Learner Waiver applies only to standard in-district or out-of-district tuition rates and is not applicable toward Community Education classes or special programs.

Military Duty Activation

In the event that a student in the Armed Forces, National Guard, or Reserves is called to active duty while enrolled at Crowder College and the student submits a copy of their military orders to the Records Office, the student shall be granted a 100% refund of tuition and fees for all classes from which the student withdraws.

The student should work closely with their faculty to develop strategies to complete any or all courses successfully within the time-line provided. If circumstances are such that it is not possible to complete any of the courses, then the student may withdraw from any or all courses with a full refund of

tuition, facilities use fees and lab fees.

Non-Degree Seeking Students

A student who has satisfied enrollment requirements but has not enrolled as one seeking a degree or certificate. A non-degree seeking student must comply with all other college policies, including placement testing for English and math courses. Regardless of semester hours accumulated, the student will not be granted a degree or certificate until he or she declares a major, files for a graduation check, pays applicable graduation fees and takes the exit exam. Non-degree seeking students are not eligible for financial aid.

Senior Citizen Students

Students age 65 or older before August first of the school year who reside in the state of Missouri and are otherwise eligible to attend will be granted a senior citizen tuition waiver. A student receiving a senior citizen tuition waiver will take all tuition-free courses on a non-credit basis and must satisfy all course prerequisites of the institution. Student will not be eligible for financial aid. Students are responsible for books, institutional support fees, security fees, online course fees, lab fees, and any other applicable fees. The tuition waiver applies only to standard in-district or out-of- district tuition rates and is not applicable toward Community Education classes or special programs. (Per Missouri Revised Statute Chapter 173.091.1-.6.)

Students who wish to take courses for credit must pay for such courses and are responsible for all tuition and fees. Other forms of financial aid may apply.

DEGREE CLASSIFICATIONS

Associate of Arts Degree (AA)

The degree requirements are listed in the catalog. This degree is usually earned by students who concentrate in liberal arts or business courses on the college transfer level.

Associate of Science Degree (AS)

The degree given to students who have completed the requirements listed in the catalog. Associate of Science degrees have been developed for transfer to specific universities and programs. Crowder College offers AS degrees in Nursing and Pre-Engineering.

Associate of Applied Science Degrees (AAS)

The degree given to students who have completed the requirements listed in the catalog. AAS graduates are prepared for the world of work upon completion of their selected program. While not designed for transfer, selected AAS programs may be transferred to four-year colleges through special articulation agreements.

Certificates of Study

Certificates of Study are given to students who have completed the requirements listed in the catalog. Certificates of Study are designed to prepare students for entry level positions in a variety of fields. The number of units of credit varies with the certificate program selected.

COURSE CLASSIFICATIONS

Auditing a Course

Students may AUDIT a class for personal development. No credit or grade is received for the classes, but fees are the same as for credit enrollment. Audits must be declared by the second week of class. Audits are not counted in calculating financial aid.

Community Education Classes

These classes are offered on a not-for-credit basis and have varying durations and fees. Classes are offered each semester and feature a variety of disciplines, skills, and activities. Interested individuals should contact the Community Education office at (417) 455-5632. No financial aid is available for these classes.

Experiential Credit

Opportunity for credit may be possible through on-the -job experiences, trade or technical skills, etc.
Students interested in applying for such credit should do the following:

- 1. Contact the appropriate Division Chair or Program Director to arrange an appointment.
- 2. Submit a letter of application that includes documentation of the experience to be evaluated.
- Attach an Alternative Learning form to be signed by appropriate individuals if credit is to be granted. Alternative Learning forms are available in the Academic Affairs Office.

Experiential credit will be evaluated by a team of professionals based upon the information presented by the student. There is a charge of \$50 per course for the evaluation. No financial aid is available for this credit.

Flex Classes

Classes that employ a combination of in-class attendance and on-line course work. Students must meet online course requirements to enroll in flex classes.

Non-traditional Credit

Requests for college credit acquired through means other than classroom or laboratory experience should be initiated in the Academic Affairs Office. The student should arrange for an appointment with the appropriate Division Chair or Program Director and have appropriate certificates, test scores or other documentation of successful completion of the work for which s/he is requesting credit.

Non-traditional credit will not be transcripted if the student is not enrolled. No financial aid is available for this credit.

Online Course

A course offered through the Internet. Students must meet requirements for college level English and reading (see Assessment and Placement) to take online classes. Keyboarding and word processing experience are necessary, as well as access to a properly equipped computer with Internet access.

Programs of Study

Students consecutively enrolled must adhere to program requirements listed during the first semester enrolled but may elect to use the current catalog program requirements, but not more than one catalog shall be applied to meet graduation requirements. Students requesting to change to new program requirements under the current catalog should contact their advisor or the Records Office, prior to submitting a Graduation Check form, to receive advisement on graduation requirements. Students not consecutively enrolled must adhere to any new program requirements and policies as listed in the current catalog.

Repeat Course

A course already taken by a student in which credit has been earned may be repeated. When a course is repeated, regardless of the initial grade, the most recent grade earned will be calculated in the GPA. The original course that is repeated cannot be used to fulfill graduation requirements. Only the final attempt of a course may be used to fulfill graduation requirements. A course may be repeated after graduation; however, the student will not be eligible for honors and recognitions after graduation unless the student is seeking another certificate or degree.

All grades including the original course and repeated course will appear on the transcript. A course may be repeated more than once; however, the most recent grade is always used in GPA calculations. The transcript will note the cumulative GPA which includes all attempted hours for graded course work. Repeated classes may not be funded by Veterans Benefits, Federal Financial Aid awards, or A+.

Self-Directed Learning

On a very limited basis, students may enroll in coursework as self-directed learners. The Instructor, the Division Chair and the Vice President of Academic Affairs must grant approval. Forms are available in the Office of Academic Affairs.

Traditional Course

Traditional courses meet with the instructor in a classroom. Time spent in class weekly corresponds to the number of credit hours earned. Additional time may be necessary for lab work.

PAYMENTS

Students are responsible for the timely payment of tuition, fees, and other applicable charges. Students will not be considered officially enrolled until all financial obligations have been met.

Acceptable Payment Arrangements

- 1. Payment of account in full
- 2. Proof of adequate Federal financial aid (Pell, etc.) or third party payment (VA, TRA, A+, etc.)
- 3. Participation in the college sponsored payment plan (contact the Cashier's Office for more information)

Course Fees & Tuition

Tuition is established by the Crowder College Board of Trustees and is subject to change without notice. For a small number of programs, a flat tuition rate is charged for enrollment in the program. A few specialized programs charge "differentiated tuition." Differentiated tuition is the amount the student would pay based on their residency plus a percentage to cover program or equipment expenses.

For a majority of the programs at Crowder College, tuition is charged based on the number of credit hours in which a student is enrolled. Tuition is affected by residency status associated with three categories. Those three tuition categories are "In-District," "Out-of-District," and "International."

All fees are approved by the Crowder College Board of Trustees and are subject to change without notice. Tuition and facility use fees are charged to each student based on the number of credit hours or course in which a student is enrolled. These fees cover operational services at Crowder College. Additional fees may be charged based on the specific course in which a student is enrolled. These fees cover specific supplies or administrative costs needed for specific courses.

For a complete listing of Crowder College tuition and fees, please see: http://www.crowder.edu/financial-aid/tuition-residency/

Payment Arrangements

Students may enroll in classes during designated enrollment periods. Payment arrangements must be made at time of enrollment. Acceptable payment arrangements include:

- 1. Payment in full
- 2. Current FAFSA completed and all requested documents on file
- 3. Participation in the college sponsored payment plan.

If arrangements have not been made by the end of the month the semester starts, the student's enrollment may be cancelled.

COURSE CHANGES AND ATTENDANCE

Students are responsible for their class enrollment status and may add classes through the registration deadline.

Students are also responsible to officially withdraw, in writing, from their class(es). Discontinuing attendance does not constitute a withdrawal.

Students who are reported as having never attended class(es) by the first four (4) weeks of the semester will constitute an administrative withdrawal and the student will not be guaranteed re-entry to the dropped courses. Students eligible for financial aid are not eligible to receive disbursements for never attended courses.

Withdrawal forms are available at each Crowder College location and may be completed and submitted to the appropriate personnel, or a written notification that clearly indicates the class(es) to be dropped may be mailed directly to: Crowder College, Admissions Office, 601 Laclede, Neosho, MO 64850.

A student may withdraw from a traditional semester (16 week) course without grade penalty during the first twelve weeks of a traditional semester, the first three weeks of a 4 week semester, or the first six weeks of an 8 week semester. Students wishing to withdraw from any other course must do so prior to mid-term of that course. It is very important that students refer to the Tuition Refund Policy to understand what amount of tuition, if any, will be refunded based upon their withdrawal date. Failure to withdraw from a course will result in a grade of an "F" for the course(s) and the student will be financially responsible for the tuition and fees.

Classification of Residency

In-District: Students whose permanent home is within the main Crowder College district (Neosho, Diamond, Seneca, East Newton and McDonald County school districts). Students (spouses, parents or guardians) owning property in the district are considered indistrict residents. Full-time active duty military personnel stationed on a Missouri military base, their spouses and dependents are considered residents of the district. The residency status of recently discharged veterans will be based on legal residency at the time of induction into military service or on residency established during service.

Out of District: Students whose permanent home is located outside of the college district's boundaries.

International: Students whose citizenship is to a foreign country at the time of registration. Students are not eligible to change their residency status while they remain citizens of a foreign country.

Course Cancellations

There are times when classes may be cancelled due to low enrollment. Fees paid for such classes will be

refunded.

Hardship Withdrawals

Students experiencing extenuating medical, financial, or family hardships which prevent course completion may submit a request for Hardship Withdrawal to the Vice President of Student Affairs. The student may be required to document unusual circumstances which justify request for a hardship withdrawal. The granting of a hardship withdrawal will also depend upon whether the student is passing the course as of the effective date of the hardship request. A hardship withdrawal does not clear financial aid responsibilities. Refer to the Student Handbook for restrictions.

Residency Status Policy

For tuition purposes, residency status is determined at the time of application for admission to Crowder College based upon the student's legal permanent address or the domicile where they plan to return or reside. The residence of a minor student under the age of 21 will be the residence parents/legal guardian (s) unless the student has established court declared emancipation.

Tuition and Fees Refunds

Students are eligible for refunds only if s/he has followed official withdrawal procedures in the Records Office. Failure to attend classes does not constitute a withdrawal. If the student has paid college costs and officially withdraws, tuition will be refunded according to the refund policy after all charges have been applied to the account. If college costs have been partially or fully paid by financial aid (scholarships, grants, or loan) the refund may be returned to that financial aid source first. Any remainder will be returned to the student.

Please refer to the published refund schedule.

CHANGE OF RESIDENCY

The burden of proof of establishing permanent residency rests on the student. A request for a change in status must be submitted in writing to the Admissions Office with appropriate evidence or documentation of a permanent residency change. All requests must be received by the Admissions Office no later than the second week of the petitioning semester. Otherwise, residency status does not change during the semester. Change of residency

status will only affect future terms and is not retroactive for previous semesters. In accordance with the Due Process policy, students may appeal decisions by submitting a grievance to the Vice President of Student Affairs.

Evidence of Domicile

- Proof of residence for 12 prior consecutive months within the district or state through lease agreement or deed.
- 2. Marriage Certificate and proof that new spouse owns property within the district or state.
- Documentation reflecting in district or state residency and presence within the district or state of Missouri for the purpose of retirement, full time employment due to company relocation or transfer, or professional practice or business ownership.
- Military discharge or active duty documents (DD214)
- 5. Proof of employment within the state.
- 6. Paid personal or property tax receipts within the college district (In-District).

FINANCIAL AID

Federal Direct Loan Program

Eligibility: Students must be enrolled at least half time (6 hours).

Amount: There is an annual base award amount for dependent students of \$3,500 for freshmen students and \$4,500 for sophomore students. Independent students may borrow additional unsubsidized funds up to a maximum of \$6,000 annually and dependent students may borrow additional unsubsidized funds up to a maximum of \$2,000 annually. Students may not be eligible for the maximum amounts due to their cost of attendance and other funding. The college encourages students to borrow no more than s/he reasonably needs. Part of the advantage of a low-cost institution such as Crowder College is that a student may further his or her education without incurring large amounts of debt.

Apply to: Applications are available on the Crowder College website.

Important: Students whose complete and accurate aid

applications are submitted by the fall semester priority date (July 1), or the spring semester priority date (November 1), may reasonably expect Pell Grant/ Student Loan payments around the sixth week of the affected semester.

Students completing the aid application process after July, but before the start of the semester may reasonably expect payment by midterm. Students completing the aid application process after mid-October may reasonably expect payment within four weeks after submissions are complete.

More detailed information about the application process for each type of aid and the financial aid policies and procedures at Crowder College can be found in the Financial Aid Handbook available on the college website www.crowder.edu.

Notice to Students/Parents: Any student applying for financial aid (or the parent of a student) who purposely submits misrepresented information and/or altered documentation for the purpose of increasing his/her student aid eligibility or fraudulently obtaining federal funds will have the suspicions and evidence reported to the Office of the Inspector General, Washington, D.C. or to local law enforcement officials. Students will be liable and will be billed by the Crowder College Business Office for any aid funds which are received resulting from any type of overpayment which is caused by incomplete or inaccurate information submitted to the Financial Aid Office on all aid applications.

Federal Supplemental Educational Opportunity Grants (FSEOG)

Eligibility: FSEOG funds are awarded to the earliest eligible applicants with the greatest need. The student will indirectly be applying for these funds as part of the Pell Grant process and will be notified of any award by Crowder College.

Amount: Awards are generally made from \$200 - \$400 per year depending on the residency status of the eligible student.

Federal Work-Study Program

Eligibility: Students with demonstrated financial need may be eligible for work-study hours. The number of hours a student may work per week is determined by the expected family contribution which comes directly from the Student Aid Report, the "cost of education" as figured by the school, and all other sources of aid.

Amount: Work study jobs pay at least the Federal

Minimum Wage. The yearly amount a student may earn is based upon his/her calculated need. The Financial Aid Office will determine the amount of a possible work-study award for each student applying for aid at Crowder College.

Apply to: Interested students must first complete the Free Application for Federal Student Aid.

Jobs: For available on-campus work-study positions, please see the Career and Transfer Services Center at the main Neosho campus.

Honors Program

Students demonstrating high academic standards are invited to become members of the Crowder College Honors Program. The program has been designed to provide an arena for active participation in exploring a variety of in-depth subjects, assessing one's own strengths and weaknesses, and using critical thinking as a tool for problem solving. The program reinforces the validity of the scholarly approach and prepares participants for greater intellectual challenges. The Honors Program also fosters one-on-one instruction and mentor-based relationships. Honors students receive tuition and book scholarships each semester and the Honors designation is transcripted at the time of graduation. Requirements for participation in the program have been established for high school graduates as well as transfer and non-traditional students. Those interested in the Honors Program should contact the college's Honors Program Coordinator. (417) 455-5570.

Pell Grants

Eligibility: Be a U.S. citizen or eligible non-citizen, have a high school diploma, high school equivalency, homeschool certificate.

Amount: Awards vary based upon the need of individual students as determined by the U.S. Department of Education needs analysis formula in combination with the cost of the program involved. Pell Grant award amounts are determined yearly by the U.S. Department of Education. Areas of family information that determine eligibility are: Family size, number in college, income and assets.

Apply To: Interested students must file an application for Federal Student Aid, available online at www.fafsa.gov.

Scholarships

Crowder College offers a variety of college sponsored

scholarships. College sponsored scholarship recipients must have acceptance forms signed and on file in the Financial Aid Office by July 1. Some scholarships may require applications, auditions, etc. Students may only receive up to four semesters of college-sponsored scholarships.

A complete list of Crowder College scholarships and the application guidelines are in the Scholarship Handbook which is available on the Crowder College website and in the Financial Aid Office, first floor, Farber Building.

Veteran's Services

The Financial Aid Office acts as the Certifying Official for veterans enrolled at Crowder College. Information about academic assistance and counseling is available to anyone entitled to educational benefits from Veterans Administration (VA). Information about VA benefits may be obtained from the Financial Aid Office, (417) 455-5434.

The following individuals shall be charged the in-state 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 Missouri while attending a school located in the State of Missouri (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 GI Bill benefits (38 U.S.C. § 3319) who lives in the State of Missouri while attending a school located in the State of Missouri (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- 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 Missouri while attending a school located in the State of Missouri (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 chapter 30, chapter 31, or chapter 33, of title 38, United States Code.

• A Veteran using educational assistance under either chapter 31 or chapter 33 will not be penalized with late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement to borrow additional funds to cover financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veterans Affairs. The restriction on penalties would not apply in cases where the student owes additional payment to the school beyond the amount of the tuition and fee payment from VA to the school.

STUDENT PROGRESS AND POLICIES

Satisfactory Academic Progress for Financial Aid

The U.S. Department of Education requires institutions of higher education to define, establish, and enforce minimum standards of satisfactory progress for students receiving financial assistance. These standards must include qualitative and quantitative measures for evaluating the progress of financial aid recipients towards their educational goals. An assessment of these efforts will be performed after each semester. State, non-federal, and institutional programs have differing standards of satisfactory academic progress.

Federal financial aid regulations provide for assistance up to 150 percent of the length of the academic program. Students receiving financial aid must:

- successfully complete (with a grade of D or better) two-thirds (67%) of their total credit hours attempted, and
- must maintain a 2.0 cumulative grade point average (GPA).

If a student does not meet these requirements, the student will be placed on Financial Aid Warning for one semester. At the end of the Financial Aid Warning semester, the student must meet the cumulative GPA and credit hour completion requirements in order to avoid being placed on Financial Aid Suspension.

Students placed on Financial Aid Suspension due to extenuating circumstances may appeal in writing to the Crowder College Financial Aid Office.

Academic Forgiveness

Extenuating circumstances may justify a student being able to recover from an academic deficiency in ways which do not penalize his/her academic standing. The student's academic transcript; however, will be a full and accurate record of the student's academic career. For students receiving academic forgiveness, the transcript will record the graduation GPA excluding courses for which academic forgiveness has been granted.

Academic forgiveness may be granted for all Crowder College courses taken during one (1) semester and one (1) time during a student's academic career and must be requested prior to graduation.

- For students not continuously enrolled, academic forgiveness will be granted following a one (1) year absence or the most recent twelve (12) credit hours have been completed while achieving a minimum 2.0 semester GPA.
- For students continuously enrolled, academic forgiveness will be granted if the most recent twelve (12) credit hours have been completed while achieving a minimum 2.0 semester GPA.

Academic forgiveness cannot be used to forgive ineligibility for financial aid, athletics, or other department scholarships which may result from academic deficiencies. Academic forgiveness will only apply to the academic records.

Please refer to the Academic Forgiveness form located in the Records Office for restrictions.

Academic Warning

First time college students who earn a GPA below 2.0 will be placed on academic warning.

Continuing students with a semester GPA below 2.0 and a cumulative GPA higher than 2.0 will be placed on Academic Warning.

While College Connections (LOC 103) is not required for students on Academic Warning, an advisor may

recommend enrollment in the course with permission of the Division Chair of Learning Opportunities.

Academic Probation

Continuing students on Academic Warning who earn a semester GPA below 2.0 will be placed on Academic Probation, regardless of the cumulative GPA. This also applies to students transferring in with a GPA below 2.0. After being placed on Academic Probation, the student must maintain a 2.0 GPA each semester until their cumulative GPA is above a 2.0 and the student will be in Academic Good Standing.

Students who are on Academic Probation who maintain a semester GPA of 2.0, but a cumulative GPA less than 2.0 will be placed on Academic Probation-Continued.

If the student with an Academic Probation-Continued status earns an additional semester GPA below 2.0, but maintains a cumulative GPA above 2.0, the student will remain on Academic Probation-Continued unless the cumulative GPA falls below 2.0, at which the student will go on Academic Suspension. Continuing students on Academic Warning who earn a semester GPA below 2.0 will be placed on Academic Probation, regardless of the cumulative GPA. This also applies to students transferring in with a GPA below 2.0. After being placed on Academic Probation, the student must maintain a 2.0 GPA each semester until their cumulative GPA is above a 2.0 and the student will be in Academic Good Standing.

Students who are on Academic Probation who maintain a semester GPA of 2.0, but a cumulative GPA less than 2.0 will be placed on Academic Probation-Continued.

If the student with an Academic Probation-Continued status earns an additional semester GPA below 2.0, but maintains a cumulative GPA above 2.0, the student will remain on Academic Probation-Continued unless the cumulative GPA falls below 2.0, at which the student will go on Academic Suspension.

All students who are placed on Academic Probation will be required to enroll in College Connections (LOC 103), unless they have previously taken the course while on Warning. A Student Success Hold will be placed on the student's account to signify this requirement.

A student who is on Academic Probation and earns a semester GPA above a 2.0, but still has a cumulative

GPA below 2.0 will be placed on Academic Probation-Continued. The student will not be in Academic Good Standing until their cumulative GPA is also above 2.0.

A student who is on Academic Probation and earns a semester GPA below 2.0, but still has a cumulative GPA above 2.0 will be placed on Academic Probation-Continued.

A student who is on Academic Probation or Academic Probation-Continued who earns a semester GPA and cumulative GPA less than 2.0 will be placed on Academic Suspension.

The student will not be in Academic Good Standing until they achieve a semester and cumulative GPA above 2.0.

Academic Suspension

A student with a previous academic standing of Academic Probation or Academic Probation-Continued earning a semester GPA and cumulative GPA below 2.0 will be placed on Academic Suspension. Students may appeal the first Academic Suspension according to the procedures in the Student Handbook. Students who are on Academic Suspension will be required to complete College Connections (LOC 103), unless previously passed with a C or better while on Academic Warning or Academic Probation.

A student currently on Academic Suspension who earns a semester and cumulative GPA below 2.0 will be placed on a second Academic Suspension and will not be allowed to enroll or appeal the Academic Suspension for one year. The student must petition for admission and submit an Academic Suspension appeal in accordance with the policies in the Student Handbook.

A student currently on Academic Suspension who earns a semester GPA above 2.0, but cumulative GPA below 2.0 will be placed on Academic Probation-Continued until they are in Academic Good Standing. If the student has been placed on Academic Suspension two times and is placed on Academic Suspension a third time, the student is not eligible for admission to Crowder College. A student suspended three times may appeal to the Vice President of Student Affairs.

Attendance

Students are expected to attend all class sessions and report to each session on time. If an absence occurs,

students are responsible for all work missed. Excessive absences may result in a lowered or failing grade in the class.

Administrative Withdrawal

In order to meet federal financial aid and Department of Education guidelines, Crowder College requires faculty to take attendance. To comply, a student does not attend a seated course or fails to participate in an online course for 14 consecutive calendar days will be administratively withdrawn from the course. Attendance at Crowder requires a student to be "academically engaged" in the course. Academic engagement includes:

- physically attending a class where there is an opportunity for direct interaction between the instructor and students;
- submitting an academic assignment;
- attending a student group that is assigned by the institution;
- participating in an online discussion about academic matters; and
- initiating contact with a faculty member to ask a question about the academic subject studied in the course.

If a student is administratively withdrawn from the course, the student will receive a letter and an email making them aware of the withdrawal. Within seven (7) calendar days after the withdrawal occurred, a student can request reinstatement by contacting the Academic Affairs Office. The Academic Affairs Office will work with the faculty member to determine if the request for re-instatement should be granted. If reinstated, Academic Affairs will notify the student and the Records Manager, both via email, and the student will be then be reinstated in the course. This request is the one as appeal level and the decision at this level is final.

Credit Hour Policy

Expectation for students: Crowder College's assignment of credit hours shall conform to commonly accepted practices in higher education and the federal definition of a credit hour. For each credit hour, students should anticipate spending a minimum of 150 minutes per week based on a 16-week semester. The distribution of this time will vary based on the course and delivery method, but could include direct faculty instruction, classroom activities, web-based activities, laboratory work, research, writing papers and reports, reading text and articles, internship hours, clinical

hours, studio work, or class and assessment preparation.

Dean's List/Honors

Full-time students with a 3.50 or higher semester grade point average are placed on the Dean's List. (A full-time student is defined as a student taking twelve [12] credit hours or more. The twelve credit hours must consist of credit earning hours of courses numbered 100 or higher.) Students with high academic records are eligible for membership in the Crowder Chapter of Phi Theta Kappa, national scholastic honor society. Associate degrees and certificates are awarded "With Honors" to students earning the following cumulative GPAs the semester before graduation:

4.0 – Summa Cum Laude

3.85-3.99 - Magna Cum Laude

3.5-3.84 - Cum Laude

For a May graduate, the cumulative GPA from the fall semester will be used to determine honors. For a December graduate, the cumulative GPA from the spring or summer semester, whichever is most recent, will be used to determine honors.

Grades

Grades are awarded on the following point system:

Work Quality	<u>Grade</u>	Grade Points
Excellent	Α	4
Above Average	В	3
Average	С	2
Passing	D	1
Failure	F	0
Withdrawal	W	0
Repeat	R	0
Audit	Au	0
Credit	Cr	0
No Credit	NC	0
Pass	Р	0
Incomplete	I	0

Grade Point Average (GPA)

A student's grade point average is computed at the end of each semester. The average is used in determining class rank, graduation, honors, academic alert, warning, probation and suspension. Repeated courses cancel the former grade and the most recent grade is used to compute the GPA. The original course that is repeated cannot be used to fulfill graduation requirements. Only the final attempt of a course may be used to fulfill graduation requirements. All grades

including the original course and repeated course will appear on the transcript. A course may be repeated more than once; however, the most recent grade is always used in GPA calculations.

The semester grade point average is calculated by:

- 1. Multiplying the credit hours of a course by the points earned for the course grade.
- 2. Adding the points earned for each course.
- 3. Dividing the total points by the number of credit hours attempted.

Example:

```
ENGL 101 (B):
                     3 hrs x 3 grade points = 9
MATH 101 (A):
                    3 hrs x 4 grade points = 12
                     3 hrs x 2 grade points = 6
PSYC 101 (C):
HIST 106 (F):
                     3 \text{ hrs } \times 0 \text{ grade points} = 0
BIOL 101 (D):
                      5 hrs x 1 grade point = 5
    Total = 32 grade points (GP)
```

32 /17hrs = 1.882 (GPA)

Cumulative grade point average is the total points earned in your college career divided by the total number of credit hours. Classes with course numbers below the 100 level are not figured in the semester and cumulative GPA and are not counted toward graduation. Records of student progress are kept on file in the Records Office.

Grade Reports

Final grade reports are issued at the end of each semester upon request. No final grade report will be issued, or credit granted, if the student has a financial obligation to the college or if the student file is incomplete.

Incomplete Grades

A grade of Incomplete may be assigned and submitted by the instructor when a student has completed and passed eighty-five percent (85%) of the work required for a course but, for reasons beyond the student's control, cannot complete the entire course during the official scheduled dates of the class. Incomplete grades are contingent upon instructor approval, and instructors are under no obligation to grant them. In cases where an instructor agrees to assign an "I" grade, it is important to arrive at an agreement about exactly what is required in order to finish the course and what percentage of the grade will be based on the remaining work. The deadline for final submission of all material to remove the Incomplete will be determined by the instructor, but no longer than one

semester. Failure to complete the assigned work within one semester will result in an "I" being converted to an "F."

Procedures for Implementing Finals due to School Cancellation

If Crowder College is closed during finals week due to inclement weather, the following procedures will be implemented regarding finals.

- 1. Due to state and national accreditation standards, students in the Crowder Nursing program and the Crowder Veterinary Technology program must participate in Final exams. Students in these programs do not have the option to take the grade they have earned going into the final exam. Students in these two programs should reference his or her program handbook for specific information regarding the procedures for implementing finals due to school cancellation in the Crowder Nursing Program and the Crowder Veterinary Technology.
- 2. Distance learning or online finals are held as planned. No adjustments in the plans, schedule, or process for online classes. If the online final is a proctored on-ground final, the rules in #3, #4, and #5 apply.
- 3. Students who miss an on-ground final exam due to school being cancelled on the day of the final at their attendance location may take the grade they have earned going into the final exam.
- 4. Students who miss an on-ground final as defined in #3 may ask the instructor to take the missed final exam. The student must contact his or her instructor via e-mail DURING FINALS WEEK ONLY (Monday thru Thursday). The instructor will set the time and date to take the exam, which needs to occur prior to the end of business day on Friday of finals week. If a student does not make arrangements during finals week, he or she will be given the grade he or she had going into the final exam. A student may not ask after finals week for a date to take a missed final. If a student makes arrangements to take the missed final exam, the grade earned including the final exam is the final grade for the class. The student may not return to the grade going into the final exam.
- 5. If the Crowder College Campus location where the class meets is closed all week, then the current grade will count as the final grade.

Readmission, Suspension and Appeal

Process – Refer to Student Handbook.

GRADUATION

Degree/Program Requirements

Candidates for Associate in Arts, Associate in Science and Associate in Applied Science degrees must earn a minimum of sixty (60) hours with at least a 2.00 cumulative GPA on all coursework. Certificate graduates must also earn a cumulative GPA of 2.0 on all coursework. Crowder College must provide a minimum of fifteen hours of the final thirty (30) hours. Students in A.A.S. programs must complete at least 12 credit hours from the program's core technical classes through Crowder College. For multiple degrees or majors see the Glossary of College Terms.

Graduation Application

Graduation Applications must be initiated by the student and are processed in the Records Office prior to the semester of intended graduation. Students completing their course work in August or December will be invited to participate in the Spring graduation ceremony.

- Complete a Graduation Application in the Records
 Office or online via My Crowder per the following dates:
 - DEC graduates MAR 1
 - MAY graduates OCT 1
 - JUL graduates MAR 1
- Sign up for and take the exit exam. Dates for exit exams will be posted in the SSC and on the Crowder College web site.
- 3. Have all outstanding accounts cleared in the Cashier's Office, Library, and Bookstore.
- 4. Students who received Stafford Loan proceeds must complete an exit interview with the Financial Aid Office.

It is ultimately the responsibility of the student to monitor graduation requirements and see that these requirements are met.

Transcripts

The Records Office will send official transcripts to other schools or employers with written permission of the student. In compliance with Public Law 93-380, the Family Educational Rights and Privacy Act of 1974, Crowder College affords all students the right to inspect official records directly relating to them and the right to challenge any statement considered to be inaccurate, misleading or inappropriate. The college requires written student consent before releasing college records. Complete information regarding student records is available by contacting the Records Office. See Student Handbook "Rights to Privacy

and Educational Records".

CAMPUS SERVICES AND RESOURCES

College Assistance Migrant Grant Program (CAMP)

CAMP is a federally funded program designed to provide an opportunity for students of migrant families to attend college. Crowder College's program recruits students from Missouri, Oklahoma and Arkansas. CAMP assists students in successfully completing their first year of college. CAMP is located on the 2nd floor of Newton Hall.

Faculty/Academic Advisors

Each student is assigned an academic/faculty advisor who is knowledgeable in his/her field of interest. These advisors assist in developing realistic educational and career goals and selecting coursework that best fits student abilities and needs. Students without clear career goals will receive enrollment forms from assigned general education advisors. The student is expected to contact his/her advisor prior to each registration period for assistance in planning appropriate course work. The advisor's approval may be required for students to register.

Student Success Center (SSC)

The SSC offers a wide range of assistance and resources to all Crowder students. The SSC offers advising, enrollment, tutoring services, make up testing, special accommodations testing, a computer lab, and retention and student success services. It also serves as a valuable resource to faculty and staff at all Crowder campuses. Assistance with the admission process is the initial service offered through academic assessment and placement in the SSC Testing Center. The SSC and Testing Center staff are eager to assist students who desire to arrange tutoring, testing, or need assistance with enrollment, academic planning or transfer services.. The PLATO Learning Systems and HAWKES math software is available in the computer lab for all students. The SSC can be reached at (417) 455-5602. The Testing Center can be reached at 417-455-5433.

Career Services

Career assessment evaluation is offered for students who are unsure what major they wish to pursue. To help students prepare for their job search, the Center also offers resume and cover letter writing assistance, mock interviewing, salary negotiation practices, job listings, and over 500 career related resource materials. The Career Services Center can be contacted at (417) 455-5618.

Student Accessibility Office

The Student Accessibility Office is committed to ensuring

that students with disabilities have equal access and reasonable accommodations to goods, services, and facilities. In addition, the Student Accessibility Office will ensure that students with disabilities are not excluded, denied services, segregated or otherwise treated differently than other people. The Student Accessibility Office also makes information accessible to and useable by people with communication disabilities.

The Student Accessibility office is located in the Student Success Center in McDonald Hall, and can be contacted at (417) 455-5733. For more information, please review the Student Handbook on Policies and Procedures: Accommodations, Accessibility, and Testing online at www.crowder.edu.

(See Student Handbook)

Learning Resources Center (LRC)

Found in the Bill and Margot Lee Library the LRC serves students, faculty, and staff at all campuses by providing access to information resources, instruction, technology, and services that support teaching and learning in the mission of the college. Library instruction is provided to classes, small groups and individuals.

The library collections include approximately 38,000 books, 20,354 e-books, 155 current periodical subscriptions, 2500 art prints, over 170,000 units of microforms, approximately 3700 audiovisual programs including recorded books, VHS and DVDs, and online research databases. Library electronic resources expand the periodicals collections to include many online full-text articles in magazines, journals, and newspapers, as well as online encyclopedias, dictionaries and atlases. For students and staff, remote access allows the internet-based full-text databases to be searchable from any campus computer or from home.

Traditional interlibrary loan services are available for resources not found in the LRC. The LRC is affiliated with MOBIUS, a statewide consortium of academic libraries. MOBIUS libraries share a common library platform that allows students and staff to borrow library materials from among the 60 member libraries with access to the books within three days. The SWAN online library catalog is the gateway to sharing resources among the nine libraries in the cluster that includes the Crowder College library.

There are 28 computer workstations available for student research. Many of the stations have application software to support classes. The library is typically open 66 hours per week for research, individual and small group study, leisure reading, viewing audiovisual programs, and computer usage.

The LRC receives support from the Foundation through private gifts and donations and from the Friends of the Library.

Student Support Services (Project Now)

The SSS program is designed to improve retention, graduation, and successful transfer of participants. SSS provides a supportive environment where participants can have their academic, career and personal needs met. SSS offers a wide variety of services including: academic support, study groups and individualized tutoring, personal advisement, cultural opportunities, computer lab, college transfer assistance, community service opportunities, scholarship information, technology check out, and weekly workshops on a wide variety of topics, all at no cost to the participant.

Eligibility requirements apply. Enrollment is limited. SSS is located at the Cassville Center, Nevada Center, Neosho main campus, and Webb City Center. Call (417) 451-3223 for contact information. (A federally funded Student Support Services TRIO program)

Student Housing

Information and housing applications for the Brown Residence Complex or Roughrider Village Apartments are available in the Campus Life Office, (417) 455-5644 or by email at CampusLife@crowder.edu.

Student Clubs and Organizations

There are many opportunities for students to become involved in extra-curricular activities and organizations on campus. It is important to find a good balance between academic and non-academic activities, but both are important to maximizing the college experience. Information regarding clubs and organizations can be obtained from the Campus Life Office, (417) 455-5644, or from the Student Services Office at the off-campus sites. Upcoming events will be posted to the campus events calendar at www.crowder.edu.

Career and Salary Information

Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at Crowder College can be found at the following URL: https://scorecard.mo.gov/scorecard/. Search using School / Program "Crowder College" and choose the degree or credential type of interest. The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, most recent cohorts for wage and completion data are six years prior to the current academic year. Time to complete a program of study varies depending on the number of credit hours students earn per semester.

Catalog, Program, Course, and Policy Changes

The information in the catalog was accurate at the time of publication. The College reserves the right to make changes affecting policies, fees, curricula or any other matters cited in the catalog. The College will give reasonable and adequate notice to students to allow time to adhere to any changes in the catalog. Fees, deadlines, academic requirements, courses, degree programs, and other matters described in the catalog may change with reasonable notice. Not all courses are offered each academic year and faculty assignments may change without notice.

For the most current version, please consult the online catalog at www.crowder.edu.

GLOSSARY OF COLLEGE TERMS

Academic Forgiveness - A procedure which permits students with a low semester GPA to request that all grades for all classes for only one semester be excluded from his/her academic record. Credit hours are still used to determine eligibility for financial aid, athletics, and departmental scholarships. The student's academic transcript; however, will be a full and accurate record of the student's academic career. For students receiving academic forgiveness, the transcript will record the graduation GPA excluding courses for which academic forgiveness has been granted.

Academic Probation – A student on Academic Waning who has a semester GPA less than 2.0 will be placed on Academic Probation. Once on Academic Probation, the student must maintain a 2.0 GPA each semester to avoid being placed on Academic Suspension. Must enroll in and pass LOC 103 with a C or better.

Academic Suspension – Students with a semester and cumulative GPA below 2.0 after a semester of Acadmeic Probation will be placed on Academic Suspension. The student will not be able to enroll for one semester. Students are

eligible to appeal the Academic Suspension and will be assigned a Suspension Advisor to determine eligibility for enrollment. Must enroll in and pass LOC 103 with a C or better, if not previously passed while on Academic Probation.

Academic Warning – First semester students with a cumulative GPA below a 2.0; or continuing students with a semester GPA below 2.0 and a cumulative GPA above 2.0.

Associate in Arts Degree (AA) – The degree given to students who have completed requirements as listed in the catalog. Usually given to those who concentrate in liberal arts or business courses on the college transfer level. The degree requires at least 60 units of credit (credit hours).

Associate in Applied Science

Degree (AAS) – The degree given to students who have completed the requirements as listed in the catalog. Requires at least 60 units of credit (credit hours).

Associate of Science Degree (AS) – This degree has been developed for transfer to specific universities and programs. Consult with an advisor about pursuing this degree.

Auditing a Class – Attending a course without expectation of credit. People who audit are not required to do the outside assignments or take the examinations. Standard in-district/

out-of-district fees apply. Audits must be declared by the end of the second week of the semester.

<u>Co-requisite</u> – An academic course strongly recommended or in some cases required to be taken in conjunction with the listed course. Student should check with an Academic Advisor as to whether the co-requisite is recommended or required for the student's degree.

Credit – A way of counting how much each course is worth toward graduation. Usually, credit hours are assigned to courses according to how many hours a week the course meets; however, in some fields you are required to attend class for more hours than announced credit. In art, for instance, you may spend four hours a week in class for two hours of credit. Your tuition is based on the number of credit hours for which you register.

<u>Dean's List</u> – A list of the full-time students with a 3.5 or higher semester grade point average for the semester. (A full-time student is defined as a student taking twelve [12] credit hours or more. The twelve credit hours must consist of credit earning hours of courses numbered 100 or higher.)

Double (or Multiple) Degrees – In order to gain multiple degrees at Crowder College a student will need to meet all the requirements of the new degree and have an additional 15 credit hours from the second degree Major Courses (Required Courses or Approved Electives) taken at Crowder College that were not counted toward another Crowder degree.

Dropping a Course – Official process for withdrawing from a course. In order to drop a course, students must fill out the appropriate forms in the Admissions Office, Student Affairs Office. Students who qualify may drop courses through My Crowder during allowed periods of time.

<u>Elective</u> – A course chosen to take but that is not a required part of the regular curriculum. Electives count toward the hours needed for graduation, but cannot replace the courses that are required in your program.

Extracurricular Activities –
Opportunities the college offers as a part of its service to students.
Usually free with a student ID card.
Can include such things as movies, sports, clubs, student government, dances, parties, etc.

<u>Finals</u> – Examinations given at the end of a semester.

<u>Financial Aid</u> – Financial aid may include grants, loans, scholarships, or work study positions.

<u>Freshman</u> – Students who have completed less than 28 hours of credit.

<u>Full-time Student</u> – A student taking twelve (12) credit hours or more. The twelve credit hours must consist of credit earning hours of courses numbered 100 or higher.

Grade Point Average (GPA) – The average of a student's grades calculated by assigning a value of 4 points for an A; 3 points for a B; 2 for C; 1 for D; and 0 for an F.

<u>Graduate</u> – A student who has finished the required program of study, completed the necessary hours and received a degree.

<u>Grant</u> – Money given to help students attend college. Usually grants do not have to be repaid.

<u>Humanities</u> – Courses dealing with such things as literature, music, art, foreign languages, philosophy, and language.

<u>Intramural Activities</u> – Usually games and sports limited to people attending Crowder College.

<u>Life Sciences</u> – Courses dealing with physical development and health, including biology, nursing, dental hygiene, etc.

<u>Part-time Student</u> – Any student taking less than 12 credit hours in a semester.

<u>Pre-registration</u> – Enrolling in courses before a semester starts. Payment will not be due for these courses until the beginning of the enrolled semester.

Prerequisite – A course that must be completed before taking a more advanced course in the same field. English Composition I is a prerequisite for English Composition II, for instance.

<u>Program of Study</u> – The academic courses required for a student to successfully complete a degree.

Registration - Completing the

forms and paying the fees necessary to enroll in a class.

<u>Scholarship</u> – A sum of money or other aid granted to a student because of merit, need, etc. to pursue his/her studies.

Self-Directed Learning (SDL) – In this format, the student works independently on mastering the competencies for the class. Division Chair approval is required and this format is only utilized in rare and unique situations.

<u>Social Sciences</u> – Courses dealing with how people live, including things such as sociology, economics, political science, history, psychology, etc.

<u>Sophomore</u> – A student who has completed 28 credit hours or more.

<u>Suggested Plan of Study</u> – The suggested sequence of courses, listed by semester, the students could follow to lead to completion of the degree.

<u>Transcript</u> – A permanent record of the courses attempted, the grades received, and the courses from which withdrawn.

<u>Transfer Credit</u> – Courses which four-year colleges will accept as meeting part of their requirements.

<u>Twilight Classes</u> – Any class with a meeting time that begins after 3:00 p.m., i.e., 3:15 or 3:30.

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ACCOUNTING

ACCT 101

Practical Accounting (3-0)

3 Credits

This course is designed for students with no prior accounting course work or experience. Practical Accounting counts toward graduation in some disciplines and serves as a solid introduction to other accounting principles courses. Counts as three-hour elective in Business Administration.

ACCT 160 Payroll Accounting (3-0)

S 3 Credits

This course introduces the subject of payroll by presenting the federal rules and regulations governing employment, compensation, and payroll taxes using a computerized practice set. It takes the student step-by-step through the entire payroll process-from timekeeping, computation of gross earnings, determining federal income tax and other payroll tax withholdings: to preparing and distributing the payroll: to the vital step of recording or accounting for wages, tax liabilities, and payments or deposits.

ACCT 165 QuickBooks (3-0)

3 Credits

This course includes computerized double-entry accounting systems and concepts for service and mercantile business enterprises using current accounting software. Journals, ledgers and basic financial statements are covered. (Prerequisite: ACCT 101 or ACCT 201)

ACCT 201 Principles of Accounting I (3-0)

3 Credits

This course includes double-entry accounting systems and concepts for business enterprises. Journals, ledgers and basic financial statements are covered.

ACCT 202

F,S

Principles of Accounting II (3-0)

3 Credits

This course is designed to provide an understanding of accounting information and its use for business decision making. The emphasis is on where accounting data is obtained, what kind of information is needed, and how it is used in the management process. (Prerequisites: ACCT 201) (2)

ACCT 245

3 Credits

Tax Accounting (3-0)

This course acquaints students with the economic and social policy implications of the tax systems by which governments raise revenues. In addition, it familiarizes students with federal income tax as it applies to the individual. Students will learn how to prepare individual federal income tax returns.

ACCT 250

Certified Bookkeeper Review (3-0)

3 Credits

This is a capstone course for the accounting program and will prepare students for the Certified Bookkeeper Exam and leads to a national certification in bookkeeping through the American Institute of Professional Bookkeepers (AIPB). This certification is a practical way to demonstrate a high level of skill and experience to advance an accounting career. If you choose to be a candidate for the Certified Bookkeeper designation, you must pass the exam which consists of two test sittings offered at a third-party testing center plus two workbook exams offered onsite. Taking the Certified Bookkeeper national exam is optional and is not a requirement to pass this course. (Prerequisites: ACCT 202 or permission of instructor)

ACCT 290

F,S

Accounting Clerk Internship (1-2) 2 Credits

Supervised work experience allows the student to apply skills and office procedures in an actual office situation. Students will be required to gain experience in the area in which they are seeking a degree. Students will meet once a week in class and will work 80 hours during the semester in supervised work experience. (Sophomore level)

ADVANCED MANUFACTURING **TECHNOLOGY**

AMT 102

F.S

Introduction to Industrial Electricity (2-2)

3 Credits

This course is designed to provide a broad range of basic information and hands-on practice to beginning students in industrial electricity. Topics covered at the introductory level will include basic electrical circuits, electrical measurements, electrical relay control logic, residential and industrial wiring. A course fee will apply.

AMT 104

F.S

Electrical Motor Controls (2-2)

3 Credits

This course is designed to provide a broad understanding of electric motor control operations. The topics covered will include interpretation of schematics, diagnostic trouble shooting, electronic sensing devices, safety, three phase power, ladder logic and timer controls. A course fee will apply. (Prerequisites: AMT 102)

AMT 111

F.S

Introduction to Industrial Safety (1-0)

1 Credit

This course is designed to give the students the basic safety knowledge to obtain an "OSHA 10" card (OSHA = U.S. Occupational Safety and Health Admin-istration). Students will ac-cess a selected on-line training site and complete the requirements to obtain OSHA 10 certification. A course fee will apply.

AMT 112

F,S

Occupational Safety (1-3.5)

3 Credits

This course provides information and training to address the hazards found in renewable energy, construction, and industrial jobs. The course is designed to give the students the basic safety knowledge to obtain an "OSHA 10" card (OSHA = U.S. Occupational Safety and Health Administration). Topics include: working at heights, assisted and self-rescue, working around heavy equipment, first aid/CPR, and basic firefighting. A course fee will apply.

AMT 122

Basic Machining (Manual) (2-2)

3 Credits

This course is designed to provide a working knowledge of basic machine tools and their safe operation. Topics covered will include: shop safety, basic mathematics, blueprint reading, precision measurement, metal sawing, drills and drilling, bench grinding, engine lathes, and milling machines. A course fee will apply.

Measurement and Print Reading (2-2)

3 Credits

This course is designed to provide a working knowledge of basic machine measurements and print reading. Topics covered will include: U.S. customary measurement, measurement conversion, print reading, drawings and dimensions, holes and fasteners, tolerance, control frames and specialized equipment.

AMT 124

Computer Numeric Control (CNC) Programming (2-2)3 Credits

This course is designed to provide a working knowledge of basic CNC programming. Topics covered will include: Machine tool types, cutting concepts, machinability, saw processes, CNC operator panel, HMI panel, CNC program structure, monitoring and troubleshooting machines.

AMT 125

Computer Numeric Control (CNC) Milling (2-2) 3 Credits

This course is designed to provide a working knowledge of basic operation of CNC milling. Topics covered will include: machines, tooling, work holding, manual control and program execution.

AMT 126

Computer Numeric Control (CNC) Turning (2-2) 3 Credits

This course is designed to provide a working knowledge of basic operation of CNC turning. Topics covered will include: Turning machines, turning operations, linear and circular interpolation. Students will be instructed on the components of and the proper operation of the lathe turning machine.

AMT 132 Industrial Hydraulics (2-2)

3 Credits

This course is designed to provide a broad range of basic information and hands-on practice to beginning students in manufacturing hydraulics. Topics covered will include hydraulic power systems, basic hydraulic circuits, principles of hydraulic pressure and flow, hydraulic speed control and pressure control circuits. Students will design, build, test, troubleshoot, and repair a typical hydraulic system. A course fee will apply. (Prerequisites: AMT 111)

AMT 142

Manufacturing Mechanics (2-2)

3 Credits

This course is designed to provide the students with basic knowledge of automated manufacturing power transmission and conveyance devices. Topics covered will include: belt drives, chain drives, bearing types, precision shaft alignment, types of seals, lubricants, product conveyance devices and gear reduction. A course fee will apply.

AMT 162

Industrial Process Control I (2-2)

3 Credits

This course is designed to provide a broad understanding of Industrial Process Control as it relates to automated manufacturing. A commercially available hands-on trainer coupled with online course content will be used to cover industrial safety, interpretation of schematics, loop controllers, current to pressure converters, instrument calibration, and automatic control methods. A course fee will apply. (Prerequisites: AMT 102 or permission of instructor)

AMT 182 Introduction to Automated Robotics (2-2)

3 Credits

This course is designed to provide a working knowledge of industrial robotics. Topics covered will include: robotic and industrial safety, applications, manipulators, end effectors and beginning programming examples. A course fee will apply. (Prerequisites: AMT 102)

3 Credits

Programmable Logic Controllers (2-2) This course is designed to provide a working knowledge of Programmable Logic Controllers (PLCs) with hands-on practice for students in the various technical programs. Topics covered will include: PLC operation, applications, configuration, programming examples, and troubleshooting. A course fee will apply. (Prerequisites: AMT 102 or Permission of Instructor; Co-Requisites: **AMT 104)**

AMT 206

3 Credits

Programmable Logic Controllers II (2-2)

This course is designed to provide advanced training in programmable logic controllers as they are used in industry to manage multiple automated processes. This is the second course covering programmable logic controllers (PLCs) and will provide a working knowledge of current industry applications. A course fee will apply. (Prerequisites: AMT 204 or Permission of Instructor)

AMT 284 Automated Robotic Programming (2-2)

This course is designed to provide advance level knowledge of industrial robotic programming. Topics covered will include the utilization of special "teach pendant" accessories for remote programming, robotic axis interfacing, and program optimization relative to cycle times and other functions. Students will practice the interchange and calibration of various system components on a robotic trainer and modify "pick and place" programs using override function keys. This specialized training will give the students more advanced experience in the robotic field of study. A course fee will apply. (Prerequisites: AMT 182)

AMT 290

F.S Manufacturing Internship (0-7.5)

This course provides direct hands-on experience in a structured environment under the direct supervision of experienced tradesmen employed by a hosting organization. The course requires that 120 clock-hours be spent at the hosting location(s) during the term of study. (Prerequisites: Sophomore Standing (i.e. Completed 28

INTC 197, 198, 199, 297, 298, 299

semester hours) or Permission of Instructor)

Topics in Industrial Technology (0-8 to 3-0)

1-3 Credits

This is a variable content course with areas of study that reflect current needs of individual students in the area of Industrial Technology. Topics are identified in the course description. (Prerequisite: Permission of instructor)

AGRICULTURE

For Veterinary Science Courses see Veterinary Technology

Poultry Science courses have a POSC prefix and are listed alphabetically in this section

AGEC 123

F.S

Principles of Agriculture Econ (3-0)

3 Credits

This course is an introduction to fundamental principles of microeconomics with emphasis on application to agriculture; adjustment to forces by consumers, farmers and businessmen planning, producing, marketing, and consuming products. (Prerequisites: MATH 50 or placement scores that indicate a readiness for MATH 100 or higher)

AGEC 213

3 Credits

Farm Business Management (3-0) Economics and management principles are applied in this course to planning and operating agricultural farms and businesses. Consideration is given to decisions involved in the organization and operation of the business and the correct use of available information in making decisions. Attention is given to problems of labor management, mechanization, rental arrangements, contract farming and credit financing for different sizes and types of agricultural businesses. (Prerequisite: AGEC 123 or permission of instructor)

AGEC 223

F.S

Agriculture Computer Applications (2-2)

This course covers computer use in the workplace with emphasis on agribusiness situations. Computer applications including word processing, spreadsheet, databases, and presentation managers will be covered. Also included will be accessing information through the Internet and World Wide Web, telecommunications, an introduction to

web page design and other software appropriate to agribusiness. AGMC 205

Agricultural Mechanics (2-2)

This course provides students instruction in basic agricultural skills that are required in various occupational areas related to the production of agricultural commodities. The course will cover basic metal working, carpentry, electricity, plumbing, maintenance, and combustion engine operation. This course is a prerequisite for Supervised Occupational Experience 212.

AGRI 105

F,S,SU

Problems in Agriculture (1-0)

This course provides an opportunity for students to participate in directed problems and research in an area of special interest from the field of agriculture business, ag engineering, crops, horticulture, soils and livestock.

AGRI 106 Problems in Agriculture (2-0) 2 Credits

This course provides an opportunity for the students to participate in directed problems and research in an area of special interest from the field of agriculture business, ag engineering, crops, horticulture, soils and livestock.

F,S,SU

AGRI 107 F,S,SU Problems in Agriculture (3-0) 3 Credits

This course provides an opportunity for the students to participate in directed problems and research in an area of special interest from the field of agriculture business, ag engineering, crops, horticulture, soils and livestock. A course fee will apply.

AGRI 108 F,S,SU Problems in Agriculture (4-0) 4 Credits

This course provides an opportunity for the students to participate in directed problems and research in an area of special interest from the field of agriculture business, ag engineering, crops, horticulture, soils and livestock.

AGRI 111 F,S Ag Career Orientation (1-0) 1 Credit

This course is required for all agriculture degree-seeking students within their first semester of enrollment at Crowder College. Transfer students that have successfully completed a similar college orientation course elsewhere or have a cumulative grade point average of 2.0 on a minimum of 12 credits are exempt from this course. This course is designed to provide students with information they will need to function as a Crowder College student, as well as career exploration and the identification of personal short and long term goals the student will need to be successful.

AGRI 123 As Needed Agriculture Chemicals (3-0) 3 Credits

This course will introduce principles of the safe use, handling, and storage of chemicals that are needed in the production and storage of plant and animal products, along with the impact of agricultural chemicals on the environment.

AGRI 190 F,S World Food and Society (3-0) 3 Credits

A study of economic issues in international agriculture including the world food problem, agricultural development, agricultural and food trade and policy, food production and distribution and its relationship to societal advancements in developed and developing nations. (Prerequisite: ENGL 101)

Agriculture Capstone (2-0) 2 Credits

This course is designed for all agricultural majors with emphasis on job placement. Areas of discussion include goal setting, leadership development, human relations, résumé development, interview skills development, making transitions, team dynamics, and exit interviews.

AGRI 204 F.S.SU Internship in Agriculture (0-0) (180 contact hours) 4 Credits

The student will receive on-the-job experience in a designated training site. The student will apply his or her training in an occupational setting, applying previous learned skills and knowledge to the work place. (Prerequisite: AGRI 202 or permission from instructor)

F,S,SU AGRI 212, 222 Supervised Occupation Experience (SOE) (1-0) 1 Credit

Students majoring in Agri-Business or Farm Management must enroll in one credit hour SOE experience per semester. Those without a part-time job in their field of training may get SOE credit on the college farm with 40 clock hours of work experience per semester.

Public Relations in Agri-Business (3-0) 3 Credits

This course addresses the principles and techniques used to create and maintain public good will and acceptance are analyzed.

Emphasis is placed on how business functions in the interests of society, and on the process of creating a favorable image in the public mind.

AGRI 233 F,S,SU Travel Seminar in Agriculture (0-6) 3 Credits

This course is for all agriculture majors with an emphasis in exposing students to a broad spectrum of agricultural production, processing, and marketing outside of the four-state region. The course is comprised of a week of travel to a predetermined region of the U.S. and focuses on the major agricultural activities found in that region. Students are required to keep a daily journal of the seminar and after seminar, complete a written summary based on the journal. Course will be graded as a "pass" or "fail" only. A course fee will apply.

AGRI 299 F,S,SU Topics: Travel Credit (0-6) 3 Credits

This class provides students the opportunity to see a variety of production, processing and marketing agricultural strategies not found in the Four State area. Students will be travelling from 7 to 12 days. They are required to research and write a paper on assigned topics determined by the region which will be toured. A daily journal is required of the travel time as well as a summary paper to be written after the travel is completed. Travel may include national and/ or international destinations. Course will be graded as a "pass" or "fail" only. A course fee will apply. (Prerequisite: AGRI 233 or permission of the instructor)

AGRN 113 F,S Crop Science (2-2) 3 Credits

This course provides students with principles of production and management of various grain and forage crops. The nature, importance and ecology of various crop plants are discussed. The laboratory includes identification and study of plants and plant parts.

AGRN 121 Crop Evaluation (0-2) 1 Credit

Students become proficient in crop, weed, and disease identification, seed analysis, and grain grading through extended lab experience. (Prerequisite: AGRN 113 or permission of the instructor)

AGRN 214 F.S Fundamentals of Soil Science (3-2) 4 Credits

This course presents basic concepts of all aspects of soil science including: composition and genesis; physical, chemical, and biological properties; soil water; classification and mapping; soil conservation and management practices; soil fertility and productivity (liming, nature and use of fertilizers and manures, and soil testing). It also introduces the relationship of the soil to current concerns such as environmental and water quality in both agriculture and nonagricultural land uses.

AGRN 221 Soil Evaluation (0-2)

Soil Evaluation is a field-laboratory oriented course that focuses on the techniques used to (1) describe soil morphology and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. (Prerequisite: AGRN 214 or permission of the instructor)

AGRN 223 F (even years) Grain Crops (3-0) 3 Credits

This course is a detailed study of the botany, origins of domesticated types, cultivation, adaptation, distribution, production practices and utilization of cereal grain crops. (Prerequisite: AGRN 113)

S (odd years) AGRN 243 Forage Crops (3-0) 3 Credits

This course is a study of the major crops grown for forages and their identification, culture, management, preservation and utilization. (Prerequisite: AGRN 113)

ANSC 101, 121

Livestock Selection (0-2)

1 Credit

Students practice judging: oral and written discussions on beef cattle. dairy cattle, swine, sheep and horses for competition. (Prerequisite: Permission of the Instructor)

ANSC 114 Animal Science (3-2)

F.S 4 Credits

This course is an introduction to the livestock industry. Fundamental and essential concepts of livestock production, selection and its relation to production, types, market classes, and grades of cattle, swine, sheep and goats.

ANSC 153

S (Odd Yrs)

Beef Cattle Production (2-2)

3 Credits

Students will learn breeding, feeding, management and marketing of commercial and seed stock beef cattle. (Prerequisite: ANSC 114 or permission of instructor)

ANSC 180 Introduction to Veterinary Science (2-0)

2 Credits

This course will begin with a brief study of the professions of veterinary medicine. Basic cell structure, tissue types, and body systems will then be covered, with practical application to common animal diseases. Animal hospital procedures and animal handling will be introduced. This course will serve as preparation for those interested in working in veterinary medicine or having an interest in application to the Veterinary Technology program at Crowder College or to a college of veterinary medicine to pursue a doctorate degree. (Prerequisite: Taking BIOL 101 or 110 prior to or at the same time as taking this course is recommended)

ANSC 203

Meat Science and Products (1-4)

3 Credits

This course covers the processing, grading, inspection, preservation, nutritive value and economical value of meats and meat products.

ANSC 213

Feeds and Nutrition (3-0)

3 Credits

Students will learn the principles of animal nutrition, feed composition and formulation of balanced livestock rations and feeding of farm animals, including the various feed nutrients and their functions, digestion, and metabolism.

ANSC 223

Farm Animal Health (3-0)

3 Credits

This course is designed to explain the role of animal scientists, veterinarians and farm managers in the control and prevention of farm animal diseases and parasites. It also provides an understanding of different types of diseases, their causes, identification, diagnosis and treatment of sick animals. (Prerequisite: ANSC 114)

ANSC 232

Artificial Insemination and Reproduction (2-2)

3 Credits This course provides practical application of artificial insemination in cattle. This covers structure and function of the reproduction system of domestic animals, semen handling, processing and preservation. A course fee will apply. (Prerequisite: ANSC 114 or permission of instructor)

ANSC 233

Horse Science (3-0)

3 Credits

This course is designed to introduce the horse industry and to study fundamental problems and essential concepts of horse production, brood mare management, selection and judging of horses.

Poultry Science courses have POSC prefix and are listed alphabetically in this section

HORT 101

As Needed

General Horticulture (3-0)

3 Credits

This course surveys the general field of horticulture with emphasis on the growth and fruiting habits of horticulture plants. Principles and practices of propagation, fertilization, pest control, pruning and landscaping, turf planting, care and culture of fruit, vegetables, and ornamental crops are included.

HORT 103 Floriculture (2-2) As Needed 3 Credits

This course covers production and management of greenhouse floriculture crops and herbaceous landscape plants with principles and practices of floriculture design and marketing. Basics guidelines and principles of floral design are discussed including; balance, composition, harmony, focal point, proportion, line, rhythm, texture, form, space, and color.

HORT 113

Greenhouse Management (1-4)

3 Credits

This course focuses on factors involved in site selection, construction and management of greenhouses for the production of horticulture

HORT 204

Nursery Management/Landscape and Design (3-2) 4 Credits General principles and practices involved in the commercial production, management and marketing of landscaped plants and the fundamental principles of landscape design with practical exercises in planning and preparing master planting plans and cost estimates for the home grounds. Field trips will be required.

POSC 101

Poultry Judging & Selection I (0-2)

F,S 1 Credit

This course is an introductory training of students to judge live chickens and turkeys, ready to cook chickens and turkeys, and interior and exterior quality of eggs.

POSC 104

S (even years)

Introduction to Careers in Poultry Science (0-4) 2 Credits This course allows students to become familiar with career opportunities associated with the poultry industry, the allied poultry industry, as well as regulatory and research entities. This class includes field trips, lectures, quest speakers, interviews, oral presentations, and written reports. (Prerequisite: ANSC 114)

POSC 105

F (even years) 2 Credits

Avian Biology (2-0)

In this course, students will be introduced to the biological sciences associated with poultry. Topics will include avian origin, types of domestic poultry, basic anatomy/physiology, poultry care/husbandry, and behavior. This course will serve as a foundation for poultry production classes. (Prerequisite: ANSC 114 or Permission of Instructor)

POSC 201

F,S

Poultry Judging & Selection II (0-2)

1 Credit

This course expands the selection and judging process to compete with other schools in national contests.

POSC 206

Poultry Internship (0-0) (135 Contact Hours)

F,S,SU 3 Credits

This internship requires students to apply their training to a real life company who gives management trainee experience and hands-on problem solving opportunities.

ALTERNATIVE ENERGY

ENER 105

Introduction to Energy (3-0)

Introduction to Energy is a survey course that presents key concepts that are applicable to alternative and renewable energy resources and the technology needed to harvest them. The course also considers their potential as an energy source, energy production, environmental concerns and other factors needed to make informed decisions about alternative and renewable energy systems. Topics include solar energy, bioenergy, wind, hydroelectricity, tidal power, wave energy and geothermal energy. Course is offered at the

ENER 142 Introduction to Wind (3-2)

4 Credits

This course will emphasize the basic concepts and principles of wind energy technology. Topics include the evolution of wind energy and turbine technology, basic turbine, blade, and tower components, tower/turbine siting, wind energy transference and turbine output, along with proper safety techniques used in the wind industry. Students will have lab experiences to acquire competencies in wind technology. A course fee will apply. (Students are encouraged to be co-enrolled in CNS 101)

ENER 144 Wind Turbine Troubleshooting (3-2)

4 Credits

This course will cover the basic strategies and techniques used to troubleshoot, maintain, and repair mechanical and/or electrical problems in industrial machinery and how this relates to utility scale wind turbines. A course fee will apply. (Prerequisites: ENER 142, CNS 101)

ENER 155

Upon Request

Applied Science Institute

1 Credit (1-1) 2 Credit (1-2) 3 Credit (2-2)

This course presents alternative energy technology as applied to transportation. Technical and social issues are examined for electric and solar vehicles and alternative-fuel cars. The class includes hands -on experience with several types of alternatively powered vehicles. (This description represents a typical topic offering; course content varies by semester) A course fee will apply.

ENER 160 Introduction to Process Technology (3-0)

3 Credits

This course intends to provide basic concepts and principles concerning Process Technology common with power generation and general industry standards. Material used in this course is consistent with control and monitoring applications from the electrical generation field. Trained technicians are required to understand their role and responsibility within the environment they will work in. They must have a functional awareness of the equipment as well as system function. It may include the relationship of PLC's, diagnostic equipment, measurement systems, digital and analog readouts along with an understanding of general science and technology functions. Safety practices, procedures and regulatory guidelines will be integrated throughout the course work. A course fee will apply.

ENER 162

Introduction to Electric Power Transmission and Distribution

This is an overview study of the components, systems, and operations of power generation and power delivery. The course will look at the basic concepts and principles along with theory concerning the link between generation and conversion of power use. It will examine power collection methods, distribution of high and low voltage, underground transmission and sub-station operations. The course intends to give the student a general awareness of electrical control components, transformers and the general layout/architecture of the power grid. A variety of applications will be looked at so that the individual can realize the extensive reach of our power delivery system and network within the North American continent. It includes the connected relationship of science and technology of Alternative Energy as a growing method of power generation next to traditional systems. A course fee will apply. (Prerequisites: ENER 105, CNS 101)

ENER 200 Passive Solar Systems (4-2)

Course Descriptions

5 Credits

This class provides an overview of passive solar space heating systems and natural daylighting. It provides a foundation in insulation theory, energy conservation, heat flow calculations, alternative architecture and design theory of passive solar systems. Lab work is project-based for the design and evaluation of passive solar systems. A course fee will apply. (Prerequisite: Placement scores must indicate proficiency level of Math 100 or higher or have completed Math 50)

ENER 210

Solar Thermal Systems (4-2) 5 Credits

This class examines the design, installation, operation and maintenance of active solar equipment. Course topics include sizing hot water systems for residential applications and industrial heating. Other topics include concentrating collectors, tracking equipment, and solar cooling. System design, sizing, economics, installation, operation and maintenance are among the areas examined in detail. Lab work offers "hands-on" application of solar principles to practical projects. The class provides experience in the construction and installation of solar heating systems suitable for homes or small businesses. A course fee will apply. (Prerequisite: Placement scores must indicate proficiency level of Math 100 or higher or have completed Math 50)

ENER 220 Solar Electric Systems (4-2)

5 Credits

Solar Electric Energy presents the key components of photovoltaic (PV) conversion systems to produce electricity from sunlight. Solar module types and properties, balance of system components, standalone and utility interface, energy management, and economics for a variety of PV applications are studied. The course includes details of installation, operation, and evaluation of photovoltaic systems. Students will participate in a team-based design project. The course includes preparation for the NABCEP (North American Board of Certified Energy Practitioners) PV Associate exam. Lab provides hands-on experience with the key components of photovoltaic (PV) conversion systems to produce electricity from sunlight. A course fee will apply. (Prerequisite: Placement scores must indicate proficiency level of Math 100 or higher or have completed Math 50)

ENER 232 Wind Turbine Internship (1-5)

3 Credits

The internship provides students with a supervised field experience. Students will gain hands-on experience with energy specific technologies. This opportunity increases students' occupational competency, industry awareness and professionalism. Students will spend approximately 80 hours in the field during the semester as an intern. A course fee will apply. (Prerequisites: Permission of Instructor; AMT 112, ENER 142; Co-requisite: ENER 232 and ENER

ENER 256, 257, 258

Upon Request

Projects in Alternative Energy

1 Credit (1-1); 2 Credits (1-2); 3 Credits (2-2)

This course offers additional experience in solar or wind technology design and application. The course will be tailored toward a student's focus/need. This course may be offered in conjunction with a solar or wind project and/or internship. A course fee will apply. (Course content varies by semester.)

ART & DESIGN

ART 101

Art Appreciation (3-0)

F.S.SU 3 Credits

This course is a survey of major concepts in the visual arts and their relation to the societies that produced them. Art Appreciation is an introduction to the history of art, contemporary art, art theory, artworks, media, and creative processes. The student will develop an increased appreciation for the visual arts, the usage of media as a means of communication, and the parallel relation to specific styles, periods and cultures. This course partially fulfills Humanities general education requirements. (Will NOT satisfy core for Art & Design majors) A course fee will apply.

ART 103

Introduction to 2-D Design (2-4) 3 Credits

This comprehensive visual arts foundation course introduces 2-D design theory. The studio and lecture presents the elements of composition, principles of organization and color Contemporary and historic models of expression are explored with an emphasis on creativity. (Required core for Art & Design majors) A course fee will apply.

ART 104

Introduction to 3-D Design (2-4)

3 Credits

This comprehensive visual arts foundation course introduces threedimensional design theory. The studio and lecture course presents the elements of art and principles of design as applicable to threedimensional forms. The aesthetics of contemporary and historic models of expression are explored with an emphasis on creativity. (Required core course for Art & Design majors) A course fee will apply.

ART 105, 205 Topics in Art (1-3)

3 Credits

Variable content, appropriate to student needs, is included in this elective course. Lectures and/or studio projects in the fields of art history, computer art, design, drawing, fibers, graphic design, ceramics, sculpture, painting, and current art subjects may be used. (This course may not be used to fulfill a major in art requirement. Consult the registration schedule for specific topics when class is offered) A course fee may apply.

ART 106 Drawing I (2-4)

F.S 3 Credits

Drawing I is a beginning level, fundamental art department course investigating a variety of media, techniques and subjects. The course explores perceptual and descriptive possibilities with consideration to drawing as a developmental process as well as an end in itself. (Required core for Art & Design majors) A course fee will apply.

ART 107 Painting I (2-4)

3 Credits

Painting I highlights composition and visual concepts through historical and contemporary applications. Visual elements and design principles are investigated in directed studies, which include the still life, landscape, portrait, abstract, and non-objective concepts. Drawing and design skills are emphasized. (Required core for Art & Design majors) A course fee will apply.

ART 110 Ceramics I (2-4)

F,S 3 Credits

This course introduces Ceramics through hand-built and wheelthrown methods of construction. Clay and glaze preparation, construction techniques, and use of the potter's wheel are emphasized. The historic and theoretic applications of clay design and ceramics as a fine art medium are explored through sculptural and functional applications. (Required core for Art & Design majors) A course fee will apply.

ART 111

3 Credits

Sculpture I (2-4) Sculpture I introduces the fundamental development of three-

dimensional design forms. Sculptural and environmental relationships are explored. Expressive concepts are encouraged with various media and techniques. (Required core for Art & Design majors) A course fee will apply.

ART 119

Printmaking I (2-4)

3 Credits

Printmaking I examines the technical processes, applications, and avenues of creative expression inherent to the methods of monotype, relief, intaglio, and mixed media printmaking. These distinctive procedures revolve around processes of manual printing; in black and white, as well as in color, through directed projects and personal experimentation. The historic, theoretic, and contemporary applications of printmaking as a unique art form are investigated and discussed alongside the physical production of fine art prints. design principals, craftsmanship, and conceptual development are strongly emphasized and will be cultivated throughout all stages of the course. (Prerequisite: ART 103 & ART 106 are recommended)

ART 189

Photography (2-4) 3 Credits

Introduction to digital photography and image editing emphasizing the technical and aesthetic issues and how these qualities inform

image content. Control of camera settings, natural and studio lighting, and basic Photoshop editing is explored as well as career options in digital photography. A final printed and digital portfolio will be prepared. Students enrolled in the course must own a digital camera. Lab fee required.

ART 206 Drawing II (2-4)

F.S 3 Credits

Drawing II is an intermediate level fundamental art and design course investigating a variety of media, techniques and subjects, exploring perceptual and descriptive possibilities with consideration of drawing as a developmental process as well as an end in itself. A course fee will apply. (Prerequisite: ART 106 or permission of the instructor)

ART 207 Painting II (2-4)

F.S 3 Credits

Painting is continued with more advanced theories. Design problems include greater visual and conceptual complexity. Individual styles, personal drawing and painting techniques are emphasized in directed studies. Historical and contemporary aesthetics are explored through lecture, discussion and application. A course fee will apply. (Prerequisite: ART 107 or permission of the instructor)

ART 210

S

Ceramics II/Pottery (2-4)

3 Credits

A continuation of Ceramics I, this course is offered to students who wish to continue their studies in ceramics and fine art. An advanced exploration of materials and processes associated with clay, glaze, and firing operations are emphasized. Students will develop their own concepts through advanced studies in aesthetic, historical, functional, and sculptural ceramic applications. A course fee will apply. (Prerequisite: ART 110 or permission of the instructor)

ART 211

Sculpture II (2-4)

3 Credits

A continuation of sculptural form features more advanced threedimensional design theories. Aesthetic mass and space relationships utilize a wide range of materials and techniques. A course fee will apply. (Prerequisite: ART 111 or permission of instructor)

ART 219

F,S

Printmaking II (2-4)

3 Credits

This course focuses on the refinement and expansion of printing methods previously studied in Printmaking I. Potential techniques include: intaglio, relief, lithography, monoprint, monotype, digital, and mixed media practices. The historic, theoretic, and contemporary applications of printmaking as a unique art form are further investigated and discussed alongside the manual production of fine art prints. Students will begin to cultivate an individual an distinct approach to printmaking that supports their personal skill set and Personal mark-making, design principals, developed interests. craftsmanship, portfolio building, and conceptual development are strongly emphasized and will be cultivated throughout all stages of the course. (Prerequisite: ART 119)

AUTOMOTIVE TECHNOLOGY

AUTO 114

Auto Fuel Systems (2-4)

4 Credits

A course designed for the automotive student or practicing automotive technician. Areas of study will include engine air/fuel requirements, tanks and lines, evaporative controls, fuel pumps and filters, air cleaners, carburetion, electronic engine management and electronic fuel injection systems. Emphasis is given to emission control and electronic engine management systems. Practice is provided with live service and repair in the automotive laboratory. A course fee will apply.

Engine Repair (2-6)

5 Credits

Engine Repair is designed to teach the student accepted methods of service and repair of the engine and related systems: engine overhaul, cooling, lubrication, fuel, ignition and exhaust systems. It includes instruction in tool selection, usage, maintenance, and shop safety. Practice is provided with live service and repair in the engine repair laboratory. A course fee will apply.

AUTO 124

Automotive Brake Systems (2-4) 4 Credits

A course designed for the automotive student or the practicing automotive technician. This course is a study of the principles involved in the braking systems of the modern automobile. Instruction is given in the skills needed to diagnose and repair braking systems. Special emphasis is given to hydraulic theory, computerized anti-lock systems and the use and application of modern test equipment in the diagnosis and repair of these systems. A course fee will apply.

AUTO 125

Automotive Electrical Systems (2-6)

5 Credits

This is a concentrated course in automotive electrical systems. Included is a review of basic electrical principles. Systems studied include charging, starting, ignition, lighting and fuel. Emphasis is given to electronic ignition and electronic fuel injection. Practice is provided with live service and repair in the automotive laboratory. A course fee will apply.

AUTO 197,198, 199, 297, 298, 299

Topics in Automotive Technology (0-8 to 3-0) 1-3 Credits

This is a variable content course with areas of study that reflect current needs of individual students in the area of Automotive Technology. Topics are identified in the course description. A course fee will apply. (Prerequisite: Permission of instructor)

AUTO 214

Automotive Air Conditioning (2-4)

4 Credits

A course designed for the automotive technology student or the practicing automotive technician. A general introduction to the principles of automotive heating and air conditioning systems. The application of major components and control systems to automobiles is taught. Practical servicing, overhaul and replacement of units are emphasized, as are the recent changes in refrigerant and refrigerant handling. A course fee will apply.

AUTO 215

Automotive Emission Control Systems (2-6)

A course designed for the automotive technology student or the practicing automotive technician. The course is designed to give the student a working knowledge of, and practical experience in, the diagnosis and repair of automotive emission control systems. Emphasis is given to the electronic control systems found on later model vehicles. Practical experience is provided with live service and repair in the automotive laboratory. A course fee will apply.

AUTO 223

3 Credits

Automotive Power Train Systems (2-2)

A course designed for the automotive technology student or the practicing automotive technician. The theory of operation, design construction and malfunction diagnosis of power transmitting units: clutches, standard and automatic transmissions, drivelines, differentials and rear axles. A course fee will apply.

AUTO 224

Computerized Engine Control (2-4)

4 Credits

A course designed for the automotive technology student or the practicing automotive technician. A study in the principles of computerized engine control, the course will help the student/ technician to grasp the operation, diagnosis and repair of these complicated systems. The use and application of modern test equipment are taught in relation to their use in the diagnosis and repair of these systems. A course fee will apply.

AUTO 225

Automotive Suspension and Steering (2-6) 5 Credits

A course designed for the automotive technology student or the practicing automotive technician. This class is a study of the principles involved in the steering and suspension mechanisms of the modern automobile. Instruction is given in the skills needed to diagnose and repair steering and suspension components, replace steering and suspension system components and alignment of the wheels. The application of modern equipment is taught in relation to its use in the repair of these systems. A course fee will apply.

Auto Tech Internship (0-3 to 0-13)

1-5 Credits

This phase of the student's training includes work experience in an automotive business with weekly discussions of various on-the-job problems. (One credit per forty work hours)

AUTO 241, 251

Problems in Automotive Technology (0-2)

1 Credit

This class provides an opportunity for students to participate in independent study and research in their field of special interest within automotive technology. A course fee will apply. (Prerequisite: permission of instructor) (One credit may be earned in each of two semesters)

BIOLOGY

BIOL 101

F,S,SU

General Biology (3-2)

4 Credits

This introductory course explores the unifying principles of living organisms at the chemical, cellular, organismal, and population levels of organization, and includes cell structure and function, metabolism, genetics, evolution and ecology. Emphasis will be placed on core biological principles and human interactions with the natural world, as well as the possible outcomes of these interactions. A practical laboratory component emphasizes scientific investigating and supports lecture material. The course satisfies the life science general education requirement for the Associate of Arts degree.

BIOL 102

Biology Concepts (3-0)

3 Credits

This course is an introduction to the study of biology and covers principles of life science from the chemical basis of life to the interactions between living organisms and their environment. The unifying biological principles of cell structure and function, genetics, development, metabolism, reproduction, and ecology are addressed. This course fulfills the life science general education requirement.

BIOL 110 General Zoology (3-4)

General Zoology introduces Kingdom Animalia, surveying the diversity of the kingdom with an emphasis on the classification and ecology of major animal groups. Animal-like Protists are also discussed. Topics include evolution, natural and sexual selection, symbiotic relationships, and environmental issues relating to members of the animal kingdom. General Zoology is a requirement for the biology degree. (Prerequisite: BIOL 101; or ACT Composite Score 23 or above; or two years high school biology)

BIOL 120

General Botany (3-4)

General Botany is an introduction to the discipline of botany and includes the study of plants, algae, fungi, and bacteria. covered include principles of cell biology, fundamentals of metabolism, basic plant anatomy and physiology, plant taxonomy, a systematic survey of the plant kingdom, and ecology. An extensive laboratory section supports and extends the lecture material. General Botany is a requirement for the biology degree. (Prerequisite: BIOL 101; or ACT Composite Score 23 or above; or two years high school biology)

BIOL 152

Human Anatomy & Physiology I (4-2)

F,S,SU 5 Credits

Human Anatomy and Physiology I is the first course in a two-course sequence, covering the unifying principles of biochemistry, cell structure and function, genetics, development, and metabolism, as well as the structure and function of various organ systems of the human body. A practical laboratory component emphasizes interrelationships between systems and how the entire body functions as a unit. This course is required for students entering health-related professions but is not recommended for science majors. This course fulfills the life science general education requirements for some majors. (Prerequisite: College level reading, ACT score of 18, or comparable placement score)

BIOL 220 General Microbiology (3-4)

F.S 5 Credits

This course addresses topics ranging from the biochemistry and molecular biology of viruses and bacteria to the epidemiology of human disease. General Microbiology presents a wide-ranging examination of the microbial world, with emphasis on the relationship between microorganisms and human health and disease. course covers principles of microbiology including basic biochemistry, cell structure and metabolism, the cultivation and control of microorganisms, a survey of the microbial world, epidemiology, and host defense. General Microbiology is a requirement for nursing, and pre-professional degrees. (Prerequisite: BIOL 101, BIOL110, BIOL 120, or BIOL 152)

BIOL 252 Human Anatomy and Physiology II (3-4)

Human Anatomy and Physiology II is the second course in a twocourse sequence, covering the structure and function of various organs systems of the human body not covered in the Human Anatomy and Physiology I. These include the nervous, cardiovascular, lymphatic, respiratory, endocrine, digestive, urinary, and reproductive systems. A practical laboratory component emphasizes inter-relationships between systems and how the entire body functions as a unit. This course is required for students entering health-related professions but is not recommended for science majors. (Prerequisite: BIOL 152)

BIOL 260, 261, 262, 263 SDL, Upon Request Problems in Life and Health Sciences (1-0)

This course gives interested students an opportunity to work on a special project in Biology, typically beginning research. (Prerequisite: BIOL 220 or Permission of the instructor)

BUSINESS ADMINISTRATION

BSAD 103

2 Credits

This course is centered around the technique and personal qualities students need to find and keep the best possible job. We will also address common employer concerns and provide basic skills for success on the job. Course work centers primarily in the business fields. (Sophomore level)

BSAD 108

F,S,SU

Personal Finance (3-0)

Professional Development (2-0)

Consumer finance topics are designed to provide students with guidance in handling such everyday problems as taxes, insurance, buying a home or automobile, borrowing, saving, social security, budgeting and estate planning.

BSAD 110, 111, 210, 211

Leadership Development and Service Learning (1-0) 1 Credit

This course provides leadership experience through participation in a student business organization. Students elect to participate in activities such as the following: individual or group research projects, panel discussion, and promotional projects. (May be taken each of

four semesters)

BSAD 115

Computer Concepts (3-0)

This course provides an introductory study of computer topics. Students completing this course will have a solid understanding of basic computer concepts, networking, using a personal computer, accessing information using the Internet, sending and receiving email, managing computer files, and utilizing operating system tools. In addition, the student will be introduced to productivity software including word processing, spreadsheets, and presentation software. No prior experience with computers is assumed.

3 Credits

Business Mathematics (3-0)

This course teaches the application of business math used in accounting, finance, management, consumer economics, and retailing. Fundamental concepts addressed are interest, bank discount, payrolls, and markup. Also, the students will learn the touch system and principles of the electronic calculator.

BSAD 125 Computer Applications (3-0)

F,S,SU 3 Credits

Students are introduced to word processing, database and spreadsheet and presentation applications. Learning is enhanced through the use of current business software and hands-on experience with PC-compatible computers. Students must have access to the version of Microsoft Office being used at Crowder College. This includes Word. Excel. Access. and PowerPoint. Software used in this course is best suited within a Windows environment.

BSAD 130

F.S

Business Communications (3-0)

3 Credits

Effective communication techniques as applied in business correspondence and reports are taught in this course. (Prerequisite: ENGL 100 or higher)

BSAD 150 Introduction to Business (3-0)

F,S,SU 3 Credits

This course surveys American business enterprises. Emphasis is on the characteristics, functions and problems of modern business.

BSAD 197, 198, 199, 297, 298, 299 Topics in Business Administration (1-3) As Needed

A variable content course with topics that can change from semester to semester. Topics are identified by title in the class schedule. This course may be repeated if the topic is different to a total of six hours.

BSAD 218

Advanced Excel (3-0)

This course allows students to refine their skills in spreadsheet applications. Microsoft Excel will be used to teach advanced concepts in this software package. The course will include applying concepts to real life situations. (Prerequisites: BSAD 125)

BSAD 230

Business Law (3-0)

3 Credits

Business Law covers legal principles operative in common business situations, including the law of contracts, agency and business organization.

BSAD 236

Business Statistics (3-0)

3 Credits

Business Statistics addresses the collection, analysis, interpretation, and presentation of data related to business. Topics include measures of central tendency and dispersion, frequency distribution, hypothesis testing, and sampling distribution. Spreadsheet software will be utilized in analysis of a variety of application problems. (Prerequisites: MATH 135)

Medical Terminology (3-0)

3 Credits

This course introduces and explains basic medical terminology. Roots, combining vowels, prefixes and suffixes are examined. Basic anatomy, spelling and abbreviations are included.

CERTIFIED MEDICAL **ASSISTANT**

MEDA 101

Introduction to Medical Assisting (3-0)

3 Credits

This is an introductory course that provides a knowledge base for medical assistant's interaction with ambulatory care patients. This course covers basic principles of psychology and human growth and development; focuses on communication in the medical office/ ambulatory care setting; and focuses on legal and ethical responsibilities in patient care and management: laws pertaining to medical practice and medical assistants, application of medical ethics in performance of duties. (Prerequisites: College level reading & ENGL 100 and MATH 100 placement or equivalent)

Dosage Calculation & Medication Administration (2-0)

2 Credits

This course focuses on applications of basic mathematical principles in the medical office/ambulatory care setting. This course also provides instruction in the application of basic concepts required for medication administration: choice of equipment, proper techniques, hazards and complications, patient care; performance of intramuscular, subcutaneous, and intradermal injections; preparation administration medications; immunizations. of oral (Prerequisites: MATH 100 or higher)

MEDA 103

Medical Assisting Science I (4-0)

4 Credits

This course covers basic concepts of human anatomy and physiology as well as medical terminology related to the body as a whole and to each major body system. This course also identifies the relationship of food and nutrition to health. It covers the application of basic nutrition principles to personal well-being and the importance of nutrition in preventing chronic diseases. (Prerequisites: MEDA 101 & MEDA 102 or taken in the same semester)

MEDA 104

Clinical Medical Assisting I (2-0)

2 Credits

Clinical Medical Assisting I provides principles of basic clinical care skills as an assistant to a physician in an ambulatory care facility setting. It also provides instruction and prepares for preforming medical office procedures and diagnostics tests and follow-up care. (Prerequisites: MEDA 101 & MEDA 102 or can be taken in the same semester)

MEDA 105

2 Credits

This course presents basic concepts and applications of computers and computer systems in administrative medical assisting practice. The course provides beginning instruction in administrative medical assisting practice in the front office. (Pre- or co-requisite: MEDA 103)

MEDA 203

Medical Assisting Science II (4-0)

Administrative Medical Assisting I (2-0)

This course covers basic concept and characteristics of disease processes; etiology, methods of control, and development of selected diseases from each major body system and application of principles to the function of the medical practice. This course includes an overview of the broad scope of pharmacology, and a survey of medications commonly used in the prevention, diagnosis, and treatment of diseases. (Prerequisites: MEDA 103, MEDA 104, and MEDA 105)

MEDA 204

Clinical Medical Assisting II (3-0) 3 Credits

This course prepares the student to carry out clinical care procedures as an assistant to a physician in an ambulatory care facility setting. This course also provides instructions in preparing for and performing routine and specialty medical office procedures, diagnostic tests, inoffice/ambulatory surgical procedures, and follow-up care. (Prerequisite: MEDA 104)

MEDA 205

3 Credits

Administrative Medical Assisting II (3-0)

This course provides further instruction in administrative medical assisting practice and the application of computers in medical assisting in the front office, administrative practice including transcription of medical reports and documentation, coding, and maintaining patient records and accounts. (Prerequisite: MEDA 105)

MEDA 206

Medical Assisting Internship (0-7.5)

5 Credits

This course provides clinical experience for the development of professional characteristics as a practicing Medical Assistant. (Prerequisites: MEDA 204 & MEDA 205 or can be taken in same semester)

MEDA 207

Medical Assisting Critique (1-0)

1 Credits

This course provides an analytical approach to the correlation of theory and learned skills to practical experience in the delivery of quality patient care in the ambulatory healthcare setting. (Pre-or corequisites: MEDA 204 & MEDA 205; Co-requisite: MEDA 206)

MEDA 208

S

Advanced Clinical Medical Assisting (2-0)

2 Credits

By using lab simulation and role-playing of actual clinical situations students in Advanced Clinical Medical Assisting will problem solve, think analytically and modify care as it relates to observed responses and conditions presented. (Pre-or co-requisites: MEDA 204 & MEDA 205)

MEDA 209

Coding for the Physician's Office (5-0)

Coding for the Physician's Office provides detailed instruction in the application of an internationally accepted set of codes for the specific description of any medical procedure to treat a condition or injury to substantiate claims for reimbursement from third-party payers. (Prerequisites: MEDA 204 & MEDA 205)

MEDA 210

Medical Office Management (2-0)

Medical Office Management provides instruction in preparing for the roles of office manager and human resources representative of a medical office or ambulatory care facility. It also provides a specialty career pathway open to program graduates, professionalism, continuing education, correlation of theory and practice. (Prerequisites: MEDA 204 & MEDA 205)

CERTIFIED NURSING ASSISTANT

MUST BE 18 BY COURSE COMPLETION

CNA 101 CNA Techniques (5-0)

F.S 5 Credits

This course is a preparatory course to enable the student to work in a hospital, clinic, nursing home, or home health care setting providing basic nursing care. This course will introduce the student to the health care delivery system, health care team work, medical observation, documentation and reporting techniques, and patient assessment. Certified nursing assistants (CNA), also known as nurse's aides, orderlies, patient care technicians and home health aides, work under the supervision of a nurse and provide assistance to patients with daily living tasks. A course fee will apply. (Corequisite: CNA 102 and must be 18 years old by course completion)

CNA 102 F,S CNA Clinical Experience (0-4) 2 Credits

This course is a clinical preparatory course to enable the student to gain experience in a hospital, clinic, nursing home, or home health care setting providing basic nursing care. This course requires 100 hours of clinical experience in the health care delivery system, health care team work, medical observation, documentation and reporting techniques, and patient assessment. A course fee will apply. (Corequisite: CNA 101)

CNA 103 Home Health Aide (3-0) 3 Credit

Home Health Aide teaches basic nursing care for the disabled, chronically ill, cognitively impaired, and older adults who may need assistance living in their own homes or in residential facilities. The basic nursing skills taught include communication skills, infection control, safety and emergency procedures, and basic personal care skills. (Co-Requisite: CNA 104)

CNA 104 S Home Health Aide Clinical (0-2.5) 1 Credit

Home Health Aide Clinical provides practical experience for the student in basic nursing care for the disabled, chronically ill, cognitively impaired, and older adults who may need assistance living in their own homes or in residential facilities. This includes communication skills, infection control, safety and emergency procedures, and basic personal care skills. This course requires 40 hours of clinical field work. (Co-Requisite: CNA 103)

CNA 106 F,S Phlebotomy Techniques (3-0) 3 Credits

Phlebotomy Techniques is a course that introduces the student to phlebotomy, proper venipuncture procedures, and laboratory tests. The course will be conducted as a combination lecture/lab class where students are introduced to the concept and then given opportunity to develop the basic skills. A course fee will apply.

CNA 107 F,S EKG (3-0) 3 Credits

EKG is a course that introduces the student to electrocardiography (EKG), proper lead placement, and normal and abnormal heart rhythms. The course will be conducted as a combination lecture/lab class where students are introduced to the concept and given the opportunity to develop the basic skills. A course fee will apply.

CNA 110 S
Restorative Nurse Assistant (2-0) 2 Credits

The Restorative Nurse Assistant (RNA) is an expanded role for the Certified Nurse Assistant. The RNA acquires special knowledge, skills, and techniques in therapeutic rehabilitation as prescribed and supervised by licensed personnel. (Prerequisites: CNA 101, CNA 102 or Active CNA Certification; Co-requisite: CNA 111)

CNA 111
Restorative Nurse Assistant Clinical Experience (0-2.5)

1 Cred

The RNA 102 course is a clinical preparatory course to enable the student to gain 40 hours of clinical experience in a hospital, clinic, nursing home, or health care setting providing basic restorative nursing care. (Prerequisites: CNA 101, CNA 102 or Active CNA Certification; Co-requisite: CNA 110)

CNA 120 F
Certified Medication Technician (4-0) 4 Credits

The Certified Medication Technician course is an expanded role of the Certified Nurse Assistant. This course is a preparatory course to prepare the individual for employment as a certified medication technician in an intermediate care or skilled facility. This course teaches skills in administration of non-parenteral medications that will qualify students to perform this procedure to assist licensed practical nurses or registered professional nurses in medication therapy. A course fee will apply. (Prerequisites: CNA 101; CNA 102 or Active CNA Certification; must be CNA for 6 months and have letter from director of nursing)

CNA 130 Basic Pharmacology (3-0)

3 Credits

This course discusses current medications being used and the mechanism of action. Discussion of the way medications are absorbed, metabolized, distributed, and excreted will be included. The student will review the physiology of major body systems and explore the interaction of medications with individual systems.

CHEMISTRY

CHEM 101 Survey of Chemistry (3-2) F,S,SU 4 Credits

This course for non-science majors satisfies part of the general education science requirement. The scope of the course is quite broad with emphasis on descriptive rather than theoretical chemistry. Topics illustrating the impact of chemistry on society and aspects of chemistry applicable to everyday living are taken from inorganic, organic and biochemistry. Credit may not be earned for both CHEM 101 and CHEM 104.

CHEM 104 F,S Chemistry for Health Sciences (3-2) 4 Credits

This course for students planning to enter certain health fields satisfies part of the general education science requirement. The scope of the course is quite broad with emphasis on descriptive rather than theoretical chemistry. Topics are taken from inorganic, organic and biochemistry with emphasis on those concepts that have application in human health. Credit may not be earned for both Chemistry 101 and 104.

CHEM 111 F
General Chemistry I (4-2) 5 Credits

This class emphasizes the fundamental principles of chemistry. It includes a study of atomic and molecular structure, chemical bonding, stoichiometry, gases, liquids, solids, changes of state, solutions, colloids, chemical equilibria and acid-base chemistry. General Chemistry I is required of all science and engineering majors. (Co-requisite: MATH 135 or 150; high school chemistry or its equivalent is recommended)

CHEM 112 S General Chemistry II (4-2) 5 Credits

A continuation of Chemistry 111, this course includes a study of oxidation reduction reactions, electrochemistry, thermodynamics, kinetics, nuclear chemistry, and a survey of inorganic chemistry. The laboratory includes qualitative analysis. (Prerequisite: CHEM 111)

CHEM 201 Upon Request Quantitative Analysis (3-4) 5 Credits

A beginning course in Analytical Chemistry, this course includes discussions and laboratory work in gravimetric, volumetric, spectrophotometric, electrochemical and chromatographic methods of analysis. This class is taught on a self-directed learning (SDL) basis. (Prerequisite: CHEM 112)

CHEM 221

Survey of Organic and Biochemistry (3-4) 5 Credits

This is an introductory course in organic and bio-chemistry. It will not satisfy the organic chemistry requirement for a chemistry major but would serve as a good preparatory course for other organic chemistry courses or for other majors which require only one semester of organic chemistry, such as some of the allied health majors as well as some agriculture majors. The student should have some previous chemistry such as Survey of Chemistry or General Chemistry I. The course consists of three hours of classroom work and four hours of laboratory work which emphasize scientific investigations and supports lecture material. (Prerequisite: CHEM 101, CHEM 104, CHEM 111, or permission of instructor)

CHEM 271, 272, 273

Topics in Chemistry

1-3 Credits

A variable content course with areas of study that reflect current issues. Topics are identified in the course schedule and prerequisites are spelled out in the syllabus. (Prerequisite: Permission of department)

COLLEGE SKILLS

COLL 101 College Orientation (1-0)

F,S,SU 1 Credit

Degree and certificate seeking students must complete COLL 101 in their first semester at Crowder, if required by the degree or certificate they have declared. Non-degree seeking students are not required to take COLL 101. However, if students become degree or certificate seeking and the degree or certificate requires the class, they will be required to successfully complete the course. Transfer students who have successfully completed an equivalent college orientation class at another institution or have a cumulative grade point average of 2.0 on a minimum of 12 credit hours earned after high school graduation are exempt from COLL 101. The course is designed to acclimate new students to the Crowder College environment, provide them with information they will need to function as a Crowder College student, and encourage further evaluation of their character. Recommend taking course on ground. A course fee will apply.

COLLISION REPAIR (AUTO BODY)

CLRP 102

F

Auto Body Construction and Sheet Metal (2-2) 3 Credits

This course introduces the topics of non-structural and structural repair. Students become familiar with safe practices in the shop as well as the various tools and equipment used in the trade including lifting, measuring, cleaning, and finishing devices. Steel straightening, damage analysis, and the preparation of customer estimates are also covered. Classes are built around learning modules licensed from I-CAR (Inter-Industry Conference on Auto Collision Repair) which include both classroom and hands-on shop exercises with competencies cross-indexed to ASE/NATEF (Automotive Service Excellence/National Automotive Technicians Education Foundation). A course fee will apply.

CLRP 104 F Auto Body Plastics and Composites (2-2) 3 Credits

This course covers damage analysis/repair coverage to frontal impact and interior damage, exterior trim/hardware repairs, use of plastic adhesives, and advanced measurement systems. Classes are built around learning modules licensed from I-CAR (Inter-Industry Conference on Auto Collision Repair) which include both classroom and hands-on shop exercises with competencies cross-indexed to ASE/NATEF (Automotive Service Excellence/National Automotive Technicians Education Foundation). A course fee will apply.

CLRP 202 Auto Body Welding and Structural Straightening (2-2)

3 Credits

This course moves into the repair of bolted-on components and other areas requiring the use of gas-metal arc welding (GMAW). Additional time is also devoted to the advanced use of body fillers and repairs to both fixed and movable glass components. Classes are built around learning modules licensed from I-CAR (Inter-Industry Conference on Auto Collision Repair) which include both classroom and hands-on shop exercises with competencies cross-indexed to ASE/NATEF (Automotive Service Excellence/National Automotive Technicians Education Foundation). A course fee will apply.

CLRP 204 S Auto Body Painting and Refinishing (2-2) 3 Credits

This course covers aligning/repairing the vehicle frame, working with aluminum body parts, and the final steps in the painting/finishing process. Finding and repairing wind noise and water leaks is also addressed. Classes are built around learning modules licensed from I-CAR (Inter-Industry Conference on Auto Collision Repair) which

include both classroom and hands-on shop exercises with competencies cross-indexed to ASE/NATEF (Automotive Service Excellence/National Automotive Technicians Education Foundation). A course fee will apply.

COMPUTER AND NETWORK SUPPORT

CNS 101 Introduction to Electronics (2-2)

F,S,SU 3 Credits

This course introduces the fundamental laws of scientific atomic structure, electricity and electrical safety. It builds upon those fundamentals by the study of Ohm's Law, current, voltage, resistance, power sources, and DC (direct current) measuring instruments. An introduction to complete series, parallel, and seriesparallel circuits, the laws, mathematical formulas, and methods used to analyze these circuits. A study of how AC (alternating current) voltages and currents are generated, introducing the science of magnetism, and the effect of AC on electronic components such as inductors and capacitors. AC testing procedures will be emphasized. A course fee will apply.

CNS 105 Technical Career Development (1-0)

F,S 1 Credit

This course guides students through employability skills activities that are covered in seven levels of the program. Course includes activities that closely align with the competencies outlined by the U.S. Secretary of Labor's Commission on Achieving Necessary Skills (SCANS). It includes a school-to-work curriculum and provides the tools to strengthen school-based learning, work-based learning and connecting activities. Lessons include self-assessments in communications skills, ethics, conflict resolution, government awareness, time management skills, career research, interviewing knowledge and others.

CNS 106 F,S Technical Career Development (1-0) 1 Credit

This course is a continuation of CNS 105. Course includes the activities that closely align with the competencies outlined by the U.S. Secretary of Labor's Commission on Achieving Necessary Skills (SCANS). It includes a school-to-work curriculum and provides the tools to strengthen school-based learning, work-based learning and connecting activities. Lessons include identifying stress sources, characterizing a positive image, complete a job application, and complete a job resume. Component emphasizes scientific investigations and supports lecture material. A course fee will apply. (Prerequisites: CNS 105 or Permission of Instructor)

CNS 111 F,S PC Basics I (1-3) 3 Credits

This course covers the fundamentals of computing and peripheral devices, and also provides an introduction to operating system concepts. Through hands-on labs, desktop learning tools, and extensive Internet-based research, students develop critical thinking and complex problem-solving skills. A course fee will apply.

CNS 112 F,S PC Basics II (1-3) 3 Credits

This course addresses the software side of the computing device by focusing on the operating system, basic networking concepts, and PC security. The course also provides an introduction to selected additional concepts including troubleshooting methods, "help desk" or "call center" procedures, and ethical considerations in computer technology. A course fee will apply. (Prerequisites: CNS 111 or Permission of Instructor)

CNS 115 F,S Cisco Networking I (1-3) 3 Credits

The Cisco Certified Network Administration (CCNA) Introduction to Networks course will introduce the student to fundamental networking concepts and technologies. These online course materials will assist in developing the skills necessary to plan and implement small networks across a range of applications. The specific skills covered in each chapter are described at the start of each chapter. Online

materials coupled with hands-on lab experiences will assist students in developing the skills necessary to plan and implement small networks across a range of applications. A course fee will apply.

CNS 116 F,S Cisco Networking II (1-3) 3 Credits

The Cisco Certified Network Administration (CCNA) Routing and Switching (R&S) Essentials course will introduce the architecture, components, and operations of routers and switches in a small network. In this course, you will learn how to configure a router and a switch for basic functionality. These online course materials will assist in developing the skills necessary to plan and implement small networks across a range of applications. The specific skills covered in each chapter are described at the start of each chapter. The course uses both online and hands-on lab experiences to provide an introduction to routing and remote access, addressing, and network services. It will also familiarize students with servers providing email services, web space, and Authenticated Access. A course fee will apply. (Prerequisite: CNS 115)

CNS 121 F,S Introduction to Game Development 2-2) 3 Credits

This course will introduce the students to the world of gaming and gaming development. Students will be trained on the foundations of game design concepts, including core actions, themes, and play experience. Students will gain an understanding of different kinds of games, how they work, and the processes game designers use to create them.

CNS 122 F,S

VMware VSphere: Install, Configure, Manage (1-3) 3 Credits
This course will introduce the students to intensive hands-on trailing
that focuses on installing, configuring, and managing VMware
vSphere® 6.5, which includes VMware ESXi™ 6.5 and Vmware
vCenter Server® 6.5. This course prepares students to administer a
vSphere infrastructure for an organization of any size. It is the
foundation for most other VMware technologies in the softwaredefined data center.

CNS 131 F,S Introduction to Gaming Programming (2-2) 3 Credits

This course will introduce the students to basic programming concepts to be applied to gaming development. This course will give the students the fundamentals of C++ from a game programming perspective. Students will start with beginning C++ and work their way though to game programming assuming no previous programming experience. Students will work with different game programs and learn new concepts in each chapter. The course will end with a final game project drawing together a comprehensive collection of the course. (Prerequisite: CNS 121 or permission of Instructor)

CNS 141 F,S Programming for Gaming (2-2) 3 Credits

This course will introduce students to the fascinating world of game programming for Windows using Visual Studio and DirectX. Students will enhance their basic understanding of the C++ language and be exposed to a solid introduction to DirectX programming. Students learn the basics of making sprite-based games. This course will provide step-by-step instruction on game creation. Students will learn how to take game ideas from concept to reality using today's standard professional game-creation tools. (Prerequisites: CNS 131)

CNS 149 F Cybersecurity I (2-2) 3 Credits

This course introduces the fundamentals of Network security by examining the current challenges in computer security and why security is so difficult to achieve. This course will also examine fundamental attacks including malware, viruses, Trojans and botnets. The students will be introduced to attacks that target server-side and client-side web applications. Students will explore cryptology and its uses in the security realm. This course includes instructions on understanding common network protocols and employing network design principles. Students will experience securing three popular

types of network applications. IP telephony, virtualization, and cloud computing. (Prerequisites: CNS 112 & CNS 115)

CNS 217 F,S Cisco Networking III (1-3) 3 Credits

The Cisco Certified Network Administration (CCNA) Routing & Switching (R&S) Scaling Networks course will introduce the student to the architecture, components, and operations of routers and switches in a larger and more complex network. Students will learn how to configure routers and switches for advanced functionality. These online course materials will assist in developing the skills necessary to plan and implement small networks across a range of applications. The specific skills covered in each chapter are described at the start of each chapter. Online materials coupled with hands-on lab experiences assist the student in developing skills necessary to use protocols and to maximize enterprise Local Area Network (LAN)/Wide Area Network (WAN) performance. A course fee will apply. (Prerequisite: CNS 116)

CNS 218 F,S Cisco Networking IV (1-3) 3 Credits

The Cisco Certified Network Administration Routing & Switching Connecting Networks course will introduce the students to the Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. In this course, you will learn the selection criteria of network devices and WAN technologies to meet network requirements. These online course materials will assist in developing the skills necessary to plan and implement small networks across a range of applications. A course fee will apply. (Prerequisite: CNS 217)

CNS 221 F,S Desktop Game Development (2-2) 3 Credits

This course will instruct students to build successful games with the Unity game development platform. Students will use the powerful C# language, Unity's intuitive workflow tools, and a state-of-the-art rendering engine to build and deploy desktop, and console games. This course will provide students the knowledge to develop the skills to go from application coder to game developer. Each sample project illuminates specific Unity features and game development strategies. Students will have hands-on skill based training in settings to create graphically driven 2D and 3D game applications. (Prerequisites: CNS 141 and MATH 100 or higher)

CNS 222 F,S VMware VSphere: Optimize and Scale (1-3) 3 Credits

This course will instruct the students on advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, students will configure and optimize the VMware vSphere® 6.5 features that build a foundation for a truly scalable infrastructure, and students will discuss when and where these features have the greatest effect. This course will deepen your understanding of vSphere and how its advanced features and controls can benefit any organization.

CNS 231 F,S Android Mobile Game Development (2-2) 3 Credits

This course provides a progressive, hands-on guide to developing highly interactive and complex Android games from scratch. Student will learn all the aspects of developing a game using a space shooter game as the example that will evolve with them through the course. This course instructs the students on frame-by-frame animations and resource animations. Students will create responsive menus and dialogs and explore the different options for playing sound effects and music in Android. The course will provide training on the basics of creating a particle system. (Prerequisites: CNS 141)

CNS 241 F,S
IOS Development for Gaming (2-2) 3 Credits

Design games for IOS, Watch OS and TVOS Apple platforms in Swift, using Apple's built-in 2D game framework: SpriteKit. Students will be instructed through a series of mini-games and challenges, to advance their knowledge game development. Students will make complete mini-games, from an action game to a puzzle game to a tower defense game. (Prerequisites: CNS 141 & MATH 104 or

CNS 249 S Cybersecurity II (2-2) 3 Credits

This course enhances student's security knowledge as a second course in cyber security. This course will introduce the students to attacks on wireless devices and the security procedures. Students will be instructed on different types of mobile devices and the associated security risks. Students will be introduced principles and practices of access control by examining access control terminology, the standard control models, and their best practices. Students will receive instructions on authentication and the secure management of user accounts that enforces authentication. Students will explore disaster recover, environmental controls, incident response procedures, and forensics, security policies and the different types of policies that are used to reduce risk. (Prerequisites: CNS 112 and CNS 115)

CNS 250 F
Linux Network Administration (1-3) 3 Credits

This course covers the installation, configuration, and maintenance of a Linux-based operating system in a networked, multi-user environment. Primary focus will be on user/group management, file system utilization, system security, and utilization of various popular Linux server functionalities. A course fee will apply.

CNS 271, 272, 273

Topics in Computer and Network Support Technology (0-8 to 3-0) 1-3 Credits

This is a variable content course with areas of study that reflect current needs of individual students in the area of Computer and Support Technology. Topics are identified in the course description. A course fee will apply. (Prerequisite: Permission of instructor)

CNS 275 S
Advanced Microsoft Server (1–3) 3 Credits

This course provides advanced instruction in the design, setup, equipping, and maintenance of a network server center. Focus will be on the selection of the various types of network server computers, peripheral devices, and software necessary to provide the services required by both network administrators and users. A course fee will apply. (Prerequisites: CNS 260 or Permission of Instructor)

CNS 285 F,S Computer Network Support Internship (0–10) 4 Credits

This course provides direct hands-on experience in a structured environment under the direct supervision of experienced business/industry professionals employed by a hosting organization. The course requires that 160 clock-hours be spent at the hosting location (s) during the term of study. (Prerequisites: Permission of Instructor)

COMPUTER PROGRAMMING

Students are expected to schedule additional time outside of class in the computer lab to complete assignments.

COMP 111 F,S Introduction to Computer Science (3-2) 4 Credits

Instruction is given on the techniques of structured and object-oriented programming. The class assumes no prior programming experience. It is required for Computer Science and Information Science majors and is recommended for students in any academic or career vocational major who need to have skills on how a computer can be programmed as a problem solving tool. The course topics will include: elementary syntax, functions, classes, objects, control structures, user defined data types, arrays and data structures. (Prerequisite: MATH 135)

COMP 271, 272, 273

Topics in Computer Science 1-3 Credits

A variable content course with areas of study that reflect current issues. Topics are identified in the course schedule and prerequisites are spelled out in the syllabus. (Prerequisite: Permission of department)

CONSTRUCTION

(Energy Efficient Building Technology)

CONS 103

Sustainable Building Fundamentals (2-2)

3 Credits

Provides an introductory survey of new and existing building technologies which enhance energy efficiency, livability, and sustainability of a structure. The course is based on the NCCER (National Center for Construction Education and Research) curriculum modules "Your Role in the Green Environment," "Introduction to Weatherization" and "Sustainable Construction Supervisor". Particular emphasis will be placed on those technologies and best practices endorsed by the US DOE (U.S. Department of Energy), the USGBC (U.S. Green Building Council), and the LEED (Leadership in Energy and Environmental Design) Certification Program. A course fee will apply.

CONS 105 F Introduction to Construction Technology (2-2) 3 Credits

This course is built around NCCER's (National Center for Construction Education and Research) introductory "Core" material and is a pre-requisite for obtaining NCCER registration. As such, it is designed to provide a broad range of introductory information and hands-on practice to beginning students in construction technology. Topics covered at the introductory level include safety, shop math, hand tools, power tools, blueprints, rigging, basic communication, and basic employment skills. A course fee will apply.

CONS 112 S
Carpentry Fundamentals (2-2) 3 Credits

This course is based on the NCCER (National Center for Construction Education and Research) Level 1 Carpentry Fundamentals curriculum. It is designed to provide a broad range of information and hands-on practice to students in the fundamentals of construction. Topics studied include trade orientation, building materials, fasteners/adhesives, hand and power tools, reading plans/ elevations, introduction to concrete, reinforcing materials, floor systems, windows and exterior doors, wall/ceiling framing, roof framing, and basic stair layout. A course fee will apply. (Prerequisite: CONS 105 or Permission of Instructor)

CONS 116 S Framing and Finishing (2-2) 3 Credits

This course is based on the NCCER (National Center for Construction Education and Research) Level 2 Carpentry Fundamentals: Framing and Finishing and is designed to provide a broad range of information and hands-on practice to students in the fundamentals of construction. Topics include roofing applications, thermal/moisture protection, exterior finishing/siding, and cold-formed steel framing, drywall installation/finishing, doors/door hardware, suspended ceilings, trim for windows, doors, floors and ceilings, and cabinet fabrication/ installation. A course fee will apply. (Prerequisite: CONS 105 or Permission of Instructor)

CONS 121 S Masonry (2-2) 3 Credits

This course is based on the NCCER's (National Center for Construction Education and Research) Level 1 Masonry curriculum. Topics covered in the course include introduction to masonry and masonry units, masonry tools/equipment, measurements, basic installation, drawings/specifications, and mortar. A course fee will apply.

CONS 131 F Plumbing (2-2) 3 Credits

This course is based on NCCER's (National Center for Con-struction Education and Research) Level 1 Plumbing curriculum. Topics covered in this portion include an introduction to the plumbing profession, safety practices, plumbing tools/math/drawings, and working with plastic pipe and fittings. Also included are copper/cast-iron/carbon steel/stainless piping/fittings, fixtures/ faucets, DWV (Drain, Waste, and Venti-lation) systems, and water distribution systems. A course fee will apply.

Electrical (2-2) 3 Credits

This course is based on the NCCER's (National Center for Construction Education and Research) Level 1 Electrical curriculum. Topics covered include an introduction to the electrical trade, safety, basic circuits/theory, introduction to the NEC (National Elec-trical Code), device boxes and conduit bending/installation, raceways/fittings, conduc-tors/cables, electrical drawings, residential and commercial services, test equipment and materials and labor estimating. A course fee will apply. (Prerequisite: CONS 105 or AMT 111 or AMT 112 or Permission of Instructor)

CONS 151

Introduction to National Electrical Code (3-0) 3 Credits

This course will introduce the students to the National Electric Code (NEC). The students will learn the minimum requirements for safe electrical installations in a single, standardized source. Students will be instructed on the use and layout of the NEC. This course explores Articles of the NEC including definitions and basic initial electrical requirements.

CONS 155 Basic HVAC (2-2) 3 C

This is an introductory course on basic Heating, Ventilation, and Air Conditioning (HVAC) concepts utilizing curriculum from the National Center for Construction Education and Research (NCCER-HVAC Level 1). Students will learn by coupling traditional classroom activities with practical hands-on laboratory experiences. Topics covered include basic electrical principles, fundamental HVAC concepts, working with various types of tubing/piping, and airhandling systems. A course fee will apply. (Prerequisite: CONS 105 or AMT 111 or Permission of Instructor)

CONS 174 S
Carpentry Forms (2-2) 3 Credits

This course is based on the NCCER's (National Center for Construction Education and Research) Level 3 Carpentry Fundamentals and is designed to provide a broad range of information and hands-on practice to students in construction technology relative to concrete forms and placement. Topics covered include rigging practices/ equipment, concrete properties/ reinforcement, handling/placing concrete, trenching, excavating, foundations and slab-on-grade, vertical formwork, horizontal formwork, and tilt-up wall panels. A course fee will apply. (Prerequisite: CONS 105 or Permission of Instructor)

CONS 232 F Site Layout (2-2) 3 Credits

This course is based on the NCCER's (National Center for Construction Education and Research) Level 1 Site Layout materials and is designed to provide extended information beyond the core classes and hands-on experience to students in the fundamentals of site layout. Topics covered include distance measurement and leveling, measurement conversion, proper tool/equipment handling, surveying math/operations, basic data collection/computer entry skills, concrete properties, and means/methods. A course fee will apply.

CONS 245 S Project Management (2-2) 3 Credits

This course is based on the NCCER's (National Center for Construction Education and Research) project management materials to expand front-line supervision concepts by incorporating topics relating to the broader scope of project management. Topics covered include introduction to project management, safety, interpersonal skills, issues/resolutions, and construction documents/planning, cost estimation/ control, scheduling, resource/quality control, and continuous improvement. A course fee will apply.

CONS 251

Course Descriptions

National Electric Code Wiring Methods (3-0) 3 Credits

This course continues to introduction of the National Electric Code (NEC). The students will learn the requirements for wiring methods and materials. Students will be instructed on the use and layout o the NEC wiring methods. This course will explore the articles of the

NEC including wiring methods, cables, conduit and wireways.

Geothermal Heat Pump Systems (2-2)

This course provides an overview for designers of geothermal or ground-source heat pump systems (GSHP) and addresses fundamental principles, physical/thermal constraints, design/configuration of ground loops/piping, determination of building heating/cooling requirements, integration of ground and building systems, typical installation procedures, and environmental/regulatory issues. Instruction will consist of lecture/lab sessions and, as much as practical, scheduled field trips to observe GSHP installations in progress. A course fee will apply. (Prerequisite: CONS 155 or Permission of Instructor)

3 Credits

CONS 265 F
Alternative Energy Techniques (2-2) 3 Credits

Provides an overview of the various alternative energy technologies currently available or on the verge of becoming economically viable. This course introduces students to the Power Industry in general and the overall concepts of alternative energy usage and economics. Topics covered in the course include Biomass and Biofuels, Nuclear Power, Solar Power, and Wind Power with special focus on those technologies (Wind and Solar) most adaptable to energy efficient building applications. This course is based upon NCCER's (National Center for Construction Education and Research) materials for Alternative Energy. A course fee will apply. (Prerequisite: CONS 105 or Permission of Instructor)

CONS 268 S Energy Usage Auditing (2-2) 3 Credits

This course is based on NCCER's (National Center for Construction Education and Research) Building Auditor, Level 2, materials and provides background information on heating/ cooling, chimneys/ vents/flues, hydronic systems, energy conservation equipment, indoor air quality and alternative heating/cooling systems. This course also provides detailed guidance for the performance of a complete building energy audit including interviewing, testing, and reporting. A course fee will apply. (Prerequisite: CONS 155 and CONS 103 or Permission of Instructor)

CONS 290 F,S Construction Internship (0-8) 3 Credits

Provides direct hands-on experience in a structured environment under the direct supervision of experienced tradesmen employed by the hosting organization. Students are required to provide regular reports of work tasks attempted/completed as well as the overall time spent at the host's work location. Hosts agree to provide a safe, supervised work environment with students addressing tasks directly related to energy efficient building and the specific option being pursued by the student: General Construction, Construction Management, or Alternative Technologies. At the end of the internship, hosts will complete and submit a written evaluation of the student's performance. This course requires that 160 clock-hours be spent at the hosting location(s) during the term of study. (Prerequisite: Sophomore standing (> 28 Hours) or Permission of Instructor)

CRIMINAL JUSTICE

CJ 101 F,S Introduction to the Criminal Justice System (3-0) 3 Credits

This course is an introduction to the history, nature, structure, and function of the criminal justice system in the United States. An examination of the various aspects of the administration of justice systems, including law enforcement, courts and correctional agencies, including probation and parole, will be made. A course fee will apply.

CJ 102 F,S Crime Scene Processing (2-2) 3 Credits

This Course covers the actions of the initial responding officer at the crime scene. Students will learn the nature of physical evidence, processing methodology, basics in crime scene assessment, photography, sketching, mapping, and proper documentation

techniques. Students will be required to demonstrate they can properly collect evidentiary material that can withstand the scrutiny of the legal system. This is the practical portion of criminal investigation that law enforcement officers are required to demonstrate on a daily basis. A course fee will apply.

CJ 103 S Telecommunications (2-2) 3 Credits

This course guides students through employability skills and activities that are covered in levels of Emergency Communications. Course includes lessons and activities that closely align with the competencies outlined by the National Academies of Emergency Dispatch (NAED). The Course will cover the roles and responsibilities of the Emergency Telecommunicator, Technologies, Interpersonal Communications, Essentials, Caller management, call Classifications (Law Enforcement, Fire, and Medical), Catastrophic Events, and Radio Broadcast procedures, Legal Aspects, Quality Improvement and Stress management. A commercially available trainer will be used to give the students acquire hands-on training need for the Emergency Dispatcher. A course fee will apply.

CJ 190 F,S Patrol Operations (2-2) 3 Credits

This course is designed to integrate the academic and practical aspects of the basic patrol function for a law enforcement officer. The course examines patrol officer's duties, functions, and responsibilities as well as providing techniques to effectively respond to varied callsfor-service. The course includes lecture and practical applications in the areas of officer safety, traffic stops, contact and arrest, traffic enforcement, natural disasters, and other duties as they relate to the basic patrol function. A course fee will apply.

CJ 200 F,S Criminal Investigations (3-0) 3 Credits

This course will cover the concept of criminal investigative work from the early days up to present practices. Areas of emphasis will be the history of criminal investigation, identification, documentation and collection of physical evidence, statutory guidelines, the criminal investigator as a witness, and the different methods of investigation for each type of felony crime. A course fee will apply.

CJ 210 F,S Criminal Procedures (3-0) 3 Credits

This course will examine the U.S. Constitution, cases, statutes, and other sources of regulation in the field of criminal procedure. These regulatory documents will be examined and considered as to how they apply to criminal law and the administration of justice. Specific issues to be covered include search and seizure, interrogations and confessions, grand jury investigations, identification procedures, and the right to counsel. A course fee will apply.

CJ 230 F,S,SU
Criminal Justice Internship (3-0) 3 Credits

Criminal Justice Internship is a planned program of participant observation in a selected criminal justice agency, private corporation or related field. Students will work with the internship instructor to select an appropriate organization for placement based on the students anticipated career goals and interests. Students will be at their placement organization from 8 to 10 hours per week. Students are required to turn in weekly assignments utilizing the online course companion. (Prerequisite: CJ 101, CJ 280 & Permission of Instructor)

CJ 250 F,S Criminal Law (3-0) 3 Credits

Criminal Law is an introduction to the purposes and functions of United States Criminal Law. The course highlights the rights and duties of officers and citizens in relation to local, state and federal laws. Students will examine the development, applications and enforcement of the various laws throughout Missouri and the United States. A course fee will apply.

CJ 265 F,S Ethics in Criminal Justice (3-0) 3 Credits This Criminal Justice course identifies and examines the ethical considerations that face the criminal justice practitioner. Areas of emphasis will include determining moral behavior, developing moral and ethical behavior, ethics and law enforcement, ethics and the courts, ethics and corrections and the ethics of punishment. Other areas of emphasis will be policy and management issues, professionalism, pride and ethics for practitioners. A course fee will apply.

CJ 270 F,S Drug Investigation (3-0) 3 Credits

Drug Investigation is an introduction to the study of the use, abuse, and history of legal and illegal drugs in the United States and abroad and how it has affected communities. Principles of Statutory and Constitutional Law as they pertain to the investigation of drug related crime, and controversial issues concerning criminalization, legalization and taxation will be discussed. Principles of treatment and programs for first-time up to career offenders will be discussed and what the cost-benefit is for both the offender and the community in which they live. Methods of identification, detection, investigation and presentation of legally admissible evidence will be addressed. This course is recommended for law enforcement/ criminal justice majors. A course fee will apply.

CJ 275 F,S The Juvenile Justice System (3-0) 3 Credits

The Juvenile Justice System is designed to provide an overview of the juvenile justice system as it operates within the criminal justice system. The course will introduce you to the historical evolution and theoretical perspectives of the juvenile justice system. It will also survey the roles of law enforcement, the courts, and juvenile corrections, as well as programs, prevention and the future of the juvenile justice system. A course fee will apply.

CJ 280 F,S Report Writing (3-0) 3 Credits

This course will identify the areas of concern in regard to proper documentation of police related activities. It will focus on report writing skills, proper structuring of interviews and chronological documentation of events. Course will incorporate proper sentence structure, the use of correct terminology, and accuracy in written reports. A course fee will apply.

CJ 285 F Family Violence (3-0) 3 Credits

This course develops the student's ability to think critically about the dynamics of violence between victims, offenders and other household members in shared relationships. This course focuses on response, recognition, and assessment of violence including signs and symptoms displayed by the parties involved. The overall goals of the course are to deepen the students' skills in the assessment of family violence and in responding legally and ethically where violence has occurred.

CJ 290 F,S Police Supervision and Management (3-0) 3 Credits

This course will focus on police managerial systems; theory and styles as well as operation, leadership skills, and suggestions to create a better understanding of what is required to have an efficient, effective law enforcement agency. Organizational policies and procedures will be presented. Various law enforcement agencies will be examined, analyzed and comparisons made, and contrasts will be evaluated. A course fee will apply.

DIESEL TECHNOLOGY

DIES 124
Preventive Maintenance (2-4)

4 Credits

Preventive Maintenance is the key to keeping today's high tech diesel equipment in the field and on the road. This course covers the procedures for a major inspection including the selection of filters, evaluation of lubricants, oil sampling, selection of fuels, inspection of tread wear patterns, and adjustment of the various components. A course fee will apply.

Diesel Hydraulics (2-3)

4 Credits

This course studies hydraulics commonly used on industrial and agricultural machinery. Topics include basic principles, design, and construction of hydraulic pumps and motors. Cylinders, valves and other control devices are discussed. Troubleshooting and testing procedures complete the course. A course fee will apply.

DIES 144 Diesel Engines I (2-4)

4 Credits

This course is designed to acquaint the student with diesel engines and the processes that are needed to properly overhaul an engine. Topics include disassembly, parts identification, measurement of parts, parts reusability, rebuilding of various sub-assemblies, and proper re-assembly of the engine. A course fee will apply.

DIES 164

Diesel Brake Systems (2-4)

4 Credits

This course acquaints the student with the various brake and suspension systems found on today's heavy-duty trucks and equipment. Hydraulic and air brake systems are discussed along with componentry of each system. A course fee will apply.

DIES 184

Electrical/Electronics I (2-4) 4 Credits Theory, operation and testing of various electrical systems found on

industrial and trucking equipment will be covered. Topics covered include: basic electricity, batteries, circuit types, starting motors, generators, alternators and regulators, lighting and auxiliary circuits. A course fee will apply.

DIES 204 Diesel Powertrains (2-4)

4 Credits

To allow the engine to give its best performance, the powertrain must be able to direct the power where it is needed. This course covers the basic powertrains as they are used in industrial applications. Components such as clutches, mechanical transmissions, hydraulic assist transmissions, differentials, final drives and other drives are studied. Adjustments such as end play, backlash and preload are examined as well as the different fluids used for lubrication and fluid drive. A course fee will apply.

DIES 224

Diesel Steering and Suspension (2-4)

4 Credits

This course will cover the basic theories and applications of steering and suspension systems used on today's light and heavy duty trucks. Steering component adjustment and replacement will be discussed along with the various types of suspension systems found on heavy duty trucks. The interaction of these components and how they affect truck alignment will complete the course. A course fee will apply.

DIES 234

4 Credits

Air Conditioning (2-4)

This study of the theory and operation of air conditioning systems as they are used with automotive equipment examines basic system components, controls and air movement devices. Troubleshooting, testing and basic tool use such as pressure gauge sets and refrigerant recovery are also covered. A course fee will apply.

DIES 244

F,S

Diesel Internship (0-10)

4 Credits

The student will receive on-the-job experience in an approved training site. This will allow the student to practice and utilize the skills and knowledge learned in the previous semesters. This work experience will be supervised by the instructor one period per week. (Prerequisite: Permission of Instructor)

DIES 284

F.S

Diesel Electrical/Electronics II (2-4)

Theory, operation and testing of various electrical systems found on industrial and trucking equipment will be covered. Topics covered include the following: truck and trailer lighting systems, instrumentation and warning systems, electrical accessories, ignition systems, and computer control systems. A course fee will apply.

Diesel Engines II (2-4)

A follow-up course to Diesel Engines I, this course has the student studying operational engines with various problems installed by the instructor. Students disassemble the engine, check for worn or damaged parts, correct these problems and bring the engine back to operational condition. Students are also required to explain the reasoning behind the replacement of parts. A course fee will apply. (Prerequisite: DIES 144 or Permission of the Instructor)

DRAFTING AND DESIGN **TECHNOLOGY**

DRFT 101

F,S

Introduction to Engineering Drawing and Print Reading 3 Credits

This course provides a foundation for all engineering and technical design courses. This study includes basics of freehand sketching and CAD Drafting, and print reading. This study also includes all principles using section, auxiliary and pictorial views to better describe the product. A course fee will apply.

DRFT 102

Descriptive Geometry (2-2)

3 Credits

This course adds to the introduction of drafting fundamentals. The primary focus is on entry-level geometry construction techniques for board and AutoCAD Command usage, drawing commands, viewing commands and modifying commands. Topics include drawing layouts, 2-dimensional drawing, editing and viewing commands, drafting practices and standards, file management practices and practical uses of CAD drawings. A course fee will apply.

DRFT 103

Technical Drawing (2-2) 3 Credits This course is the second introduction to drafting class. The primary

focus is on entry-level Board and Auto CAD Command usage, drawing commands, viewing commands and modifying commands. Topics include drawing the different types of fasteners, springs, cams, welding symbols, tolerance requirements, steel details and basic structural drawing. Editing and viewing commands, drafting practices and standards, file management practices and practical uses of CAD drawings. A course fee will apply.

DRFT 105

3 Credits

Architectural Drafting (2-2)

This course is an introduction to residential construction and house design. Students are required to interview prospective clients, write a project description, and draw a set of architectural plans that include floor plans, electrical plans, elevations and construction details. The course will include components from both traditional (manual) and Computer Assisted Drafting (CAD). A course fee will apply.

DRFT 115

Basic Computer Aided Drafting (2-2)

This course is an introduction to Computer Aided Drafting. The primary focus is on entry-level AutoCAD Command usage, drawing commands, viewing commands, and modify commands. Topics include drawing layouts, 2-dimensional drawing, editing and viewing commands, drafting practices and standards, file management practices and practical uses of CAD drawings. A course fee will apply.

DRFT 120

F.S

Basic Civil Drafting (2-2)

This course is an introduction to Basic Civil drafting utilizing Computer Aided Design (CAD) with Land Desktop and Eagle Point software which is used primarily to create drawings for civil engineering projects. Command usage, drawing methods, commands, viewing commands, and modifying commands will be covered. Topics include terminology, surveys, contouring, project development, drafting practices and standards, file management practices and practical uses of the software. A course fee will apply. (Prerequisite: DRFT 101)

Assembly Drawings (1-3)

3 Credits

This course builds a foundation for all engineering and technical design courses. This study builds knowledge and understanding of assembly drawings, the procedures for producing any of the assembly drawings. A course fee will apply. (Prerequisite: DRFT 101)

DRFT 144

1 Credit

Weldment and Structural Drawings (.5-1)

This course introduces specialized areas of drafting such as: threaded fasteners, assembly sections, welding drawings, electrical drawings, piping drawings and structural drawings. A course fee will apply. (Prerequisite: DRFT 101)

DRFT 197.198. 199. 297. 298. 299

Topics in Drafting and Design Technology (0-8 to 3-0)1-3 Credits

This is a variable content course with areas of study that reflect current needs of individual students in the area of Drafting and Design Technology. Topics are identified in the course description. A course fee may apply. (Prerequisite: Permission of instructor)

DRFT 202

Machine Design (2-2)

3 Credits

This course is designed to bring together the practical applications, skills and knowledge developed in previous drafting and design The electrical and mechanical components, which are commonly utilized in a machine, which will convert a power source to work output, will be discussed. These components will then be applied to machine design projects. A course fee will apply. (Prerequisite: sophomore standing)

DRFT 203

Tool and Die Design (2-2)

3 Credits

This course is designed to give the drafting student a basic functional background important in the design of jigs & fixtures. General practices followed in the design of jigs & fixtures used in the production of consumer products and tolerance requirements will be covered. A course fee will apply. (Prerequisite: DRFT 101, 141)

DRFT 205

Intermediate Computer Aided Drafting (2-2)

3 Credits

This course is designed as a continuation of Basic Computer Aided Drafting (DRFT 115) with the addition of Auto CAD's advanced capabilities including: Associate Dimensioning, "Trace", calculating strategy, Building Blocks, Symbol library creation, Bill of Materials generation, Isometrics and other three dimensional drawings. A course fee will apply. (Prerequisite: DRFT 115)

Advanced Computer Aided Drafting (Inventor)(2-2) 3 Credits This course is designed to introduce the student to a variety of new activities using Computer Aided Drafting which include: (1) 3D-Drawing (2) 3D-Modeling, (3) Review of Auto CAD's Release 12, (4) Review of new types of CAD software, (5) Creating custom screen menus, (6) A look at Auto LISP, (7) Translating drawings via DXF and IGES. A course fee will apply. (Prerequisite: DRFT 205)

DRFT 217

Advanced CAD (Solid Works) (2-2)

3 Credits

This course is a continuation of Computer Aided Drafting. primary focus is on Basic-level 3- dimensional with SOLIDWORKS including Command usage, drawing commands, viewing commands and modifying commands. Topics include drawing layouts, 3dimensional drawing, editing and viewing commands, drafting practices and standards, file management practices and practical uses of CAD drawings.

DRFT 220

S

Introduction to Geometric Dimensioning & Tolerancing 3 Credits

Geometric Dimensioning and Tolerancing is the study of the international standards for specifying the location and size of part This course is a general orientation to the concepts involved. A course fee will apply. (Prerequisite: DRFT 101)

DRFT 280

Drafting and Design Internship (3-0)

This course is a capstone course designed to prepare students for the responsibilities of being a draftsman/designer and is focused on obtaining hands-on experience in a "real-world" design environment. The other courses completed before taking this practicum course will provide them with the appropriate skills to complete this course. During the course, students spend 120 hours completing hands-on tasks at the physical location of a designated hosting organization. (Prerequisites: Completion of 30 hours of required technical courses or Permission of Instructor)

ECONOMICS

ECON 201

F.S.SU

Principles of Macroeconomics (3-0) (Macro)

3 Credits

This basic course in aggregate economics emphasizes national income theory, fiscal policy, money and monetary policy, business cycles and economic growth. Students successfully completing this course partially fulfill Social and Behavioral Science general education requirements. (Prerequisite: Reading at least at college level) (MATH 100 or higher is recommended)

ECON 202

F,S,SU

Principles of Microeconomics (3-0) (Micro)

3 Credits

A continuation of Economics 201, this course emphasizes price, theory, competition models, wage, rent, and profit determination, international trade and balance of payments theory, and special international problems. Students successfully completing this course partially fulfill Social and Behavioral Science general education requirements. (Prerequisite: Reading at least at college level) (MATH 100 or higher is recommended) (Note: ECON 201 is not a prerequisite for EČON 202)

EDUCATION

NOTE: The state of Missouri may require all teacher education students to complete additional specific general education courses. Students are advised to work closely with their education advisor to select courses to meet current state certification requirements.

Students must register with FCSR and have a clearance letter before completing any observation in schools.

Introduction to Education (3-0)

F,S,SU 3 Credits

This course familiarizes students with the personal and professional demands of teaching, explores the field of teaching, introduces teacher education programs and certifications, and examines the historical, philosophical, political, and legal foundations of the American public education system. In introducing students to the education field, the course depicts reaching in its realistic intricacies, describes the considerations of professional teaching, and examines traits of effective schools and educators. In introducing students to the foundations of education, the design and organization of school curricula at the local, state, and federal levels, past and present ethical and legal school issues, school/community relations, and critical cultural and social issues in education. This course includes a 5-hour observation in a classroom. A cleared FSCR background check is required before any observation takes places.

EDUC 205

F.S

Music for Elementary Teachers (3-0)

3 Credits

Students study and use the methods, materials and skills involved in the integration of music into the elementary classroom curriculum. This course is DESE approved for Elementary Education majors. (Prerequisite: Reading at least at college level)

EDUC 206

F.S

Literature for Children (3-0)

3 Credits

This study of literature for elementary grades is recommended for, but not restricted to, Elementary Education majors. evaluate literature as a developmental tool. This course does not fulfill the literature portion of the general education Humanities This course is DESE approved for Elementary requirement.

Education majors. (Prerequisite: ENGL 101 or higher and reading at least at college level)

EDUC 212 Educational Technology (3-0) F,S 3 Credits

In this course students will learn how to integrate instructional technology into the P-12 classrooms. Students will study a variety of software programs, presentation technology, and telecommunication tools. The focus will also be on social, ethical, legal, and human issues surrounding the use of technology. (Prerequisite: ENGL 101)

EDUC 231 Educational Psychology (3-0) F,S,SU 3 Credits

This course is designed to help students relate theories and principles of educational psychology to teaching, learning, and assessment. This course focuses on the diversity of learns and learning processes, as well as teacher characteristics, classroom strategies, and data analysis in P-12 classrooms. Appropriate strategies for increasing motivation, multi-dimensional development, and academic achievement for all learns are introduced. (Prerequisite: PSYC 101)

EDUC 240 Education of Exceptional Learners (3-0) F,S,SU 3 Credits

This survey course is an introduction to exceptional learners and their education in grades P-12. Students will attain knowledge, skills, and dispositions that will enable them to work effectively with exceptional learners in general education or special education. The content of this course includes the history of Special Education, legal and ethical issues, state and federal guidelines, characteristics of the exceptional student, methods and techniques for instruction, school/community resources, and assistive/adaptive technology. (Prerequisite: PSYC 101)

EDUC 251 F,S,SU
Teaching Profession with Field Experience (3-0) 3 Credits

This course includes an introductory, minimum thirty (30) hours of school field experience in accredited P-12 classrooms that provide opportunities to observe and contribute to teaching and learning. This course allows preservice teachers to connect firsthand school experience with an emerging professional knowledge base. The course develops professional knowledge of diverse educational settings through observation, instruction, experience, and reflection. This course is designed to assist students in determining if a career in teaching is an appropriate goal. Requirements for teacher preparation and certification are reviewed. (Prerequisite: ENGL 101 & EDUC 125)

The following classes have not been approved by DESE and are not required for degrees in Elementary or Secondary Education. Students should contact representatives at their transfer college to determine how the courses will transfer. The State Board of Education has not approved these classes as core classes for Teacher Education majors.

EDUC 100, 101, 200, 201 Topics in Teacher Education (1-3) Upon Request 1-3 Credits

These courses involve the study of selected teacher education topics that require greater emphasis, different methodology, or are not covered in other classes.

EMERGENCY MEDICAL SERVICES

EMR 101 Emergency Medical Responder (3-0)

3 Credits

The emergency medical responder (EMR) course is designed to teach emergency medical responder lifesaving skills as stated in the course competencies. Upon successful completion of the course and subsequent testing with the National Registry of Emergency Medical Technicians (NREMT), the student will gain certification to practice as an EMR. (Prerequisite: Must be 16 years of age and hold an

American Heart Association CPR Healthcare Provider Level card)

EMT 101

F,S 9 Credits

Emergency Medical Technician (9-0) CPR certification is required by the state of Missouri before this course can be taken. The Emergency Medical Technician Program includes a twelve (12) hour hospital observation in the emergency room as well as thirty-six (36) hours in an ambulance. Topics of the course span human anatomy and physiology; vital signs and their interpretations; cardiopulmonary resuscitation; control of bleeding, bandaging and splinting; effects of medical emergencies on the body and their treatments, including heart attack, stroke, communicable diseases, child birth and child patients, diabetes mellitus and chronic obstructive pulmonary disease. This course is approved by the Missouri Department of Health, Bureau of Emergency Medical Services and will allow successful students to sit for the NREMT certification exams. A course fees will apply. (Prerequisites: AHA Healthcare Provider level CPR certification, is recommended prior to taking this course, fingerprint background check at the cost of the student PRIOR to acceptance into program; and college level reading. Acceptance to EMT course required to enroll)

EMTP 225

F.S

Emergency Medical Technician-Paramedic (7-2) 9 Credits

This is the first of five courses which follow the United Stated Department of Transportation Paramedic National Standard Curriculum. In this course, the students will be exposed to the roles and responsibilities of a paramedic within an EMS system, apply the basic concepts of development pathophysiology, medical ethics, legal aspects, pharmacology, learn proper documentation, communication methods and apply critical thinking skills to skill lab scenarios. A course fee will apply. (Prerequisites: Current EMT national certification and/or state licensure AHA BLS Healthcare Provider level card required. Acceptance to Paramedic Program required to enroll)

EMTP 230 F,S Emergency Medical Technician-Paramedic (7-2) 9 Credits

This is the second of five courses which follow the United States Department of Transportation Paramedic National Standard Curriculum. In this course the students will to medical patient assessment, respiratory and cardiovascular emergencies, airway management strategies, capnography, ECG interpretation and pharmacology integration. A course fee will apply. (Prerequisites: EMTP 225 & AHA BLS Healthcare Provider level card required)

EMTP 235 *F*,S

Emergency Medical Technician – Paramedic (7-2) 9 Credits
This is the third of five courses which follow the United States
Department of Transportation Paramedic National Standard
Curriculum. In this course, the students will be exposed to
neurological, abdominal, GI/GU, endocrine, immunologic
emergencies, and pharmacology integration. A course fee will apply.
(Prerequisites: EMTP 230 & AHA BLS Healthcare Provider level
card required)

EMTP 240 F,S

Emergency Medical Technician – Paramedic (4-5) 9 Credits
This is the fourth of five courses which follow the United States
Department of Transportation Paramedic National Standard
Curriculum. In this course, the students will be exposed to
recognizing, assessing and managing patients with acute injuries,
obstetrical, neonatal/pediatric emergencies and EMS operations. A
course fee will apply. (Prerequisites: EMTP 235, Current EMT
national certification and/or state licensure, AHA BLS Healthcare
Provider level card required. Acceptance to Paramedic Program
required to enroll)

EMTP 250

S,SU

Emergency Medical Technician – Paramedic Capstone (0-6) 6 Credits

This is the fifth of five courses which follow the United States Department of Transportation Paramedic National Standard Curriculum. In this course, the students will be exposed to

intrahospital and out-of-hospital (OOH) clinical experiences. The purpose of clinical education is to provide students with opportunities to reinforce knowledge, skills, and abilities acquired in the classroom and laboratory settings. When provided with opportunities to practice with actual patients, students transition from a basic understanding to an advanced level of comprehensive data-gathering, application and analysis. NREMT and Psychomotor testing fees are the responsibility of the student. (Prerequisites: EMTP 240, AHA BLS Healthcare Provider level CPR certification & approval from Program Director and Medical Director.

EMTP 275 F RN to Paramedic Bridge (6-3) 9 Credits

This course is designed to prepare registered nurses, in good standing, for the National Registry Paramedic (NRP) psychomotor and cognitive examinations. In this course the student will be exposed to the areas of healthcare and pre-hospital environment that differs from the RN scope of practice. The student will be exposed to the paramedic scope of practice, legal/ethical issues of emergency medical services, pre-hospital treatment and care of acutely ill and injured persons, EMS operations, and the clinical skills performed by a paramedic that are outside of a standard RN scope of practice. (Prerequisites: Current RN license with two or more years of Emergency/Critical Care, ICE, CVICU, CCU or equivalent, one year of emergency and one year of critical care experience OR one year of RN experience, ER/Critical Care with a current EMT license and one year of pre-hospital experience OR one year of RN experience with current CFRN, CCRN, CEN or CTRN certification and is actively working in emergency/critical care, must prove documented RN work experience in emergency/critical care of at least 1000 hours in the last 2 years, Current American Heart Association BLS and ACLS provider certifications, GPA of 2.5 on a 4.0 scale in all college coursework prior to entering program, EMT license, pre-hospital, critical care, or transport experience is preferred, and PALS, PHTLS, TNCC and ENPC certification(s) are preferred)

ENGLISH AND LITERATURE

ENGL 99 Composition Support Lab (3-0) F,S,SU 3 Credits

This course will focus on assisting students who need extra support in order to successfully complete English 101. This class will work concurrently with English 101 based on the appropriate placement scores and allow students to complete the gateway course with additional instruction in grammar, usage, mechanics, and style.

ENGL 100 F
Mechanics of Composition (3-0) 3 Credits

This course focuses on an in-depth study of traditional grammar and mechanics of composition, including an intensive analysis of subjects, verbs, sentence structure, and punctuation. The course may be required of students depending on scores on placement criteria, is recommended for students returning to school from a prolonged absence, and is beneficial for elementary or secondary education majors although it is not an approved education elective. The course does not fulfill communications requirements for the AA degree and may be taken concurrently with ENGL 101 if the student has the appropriate placement score for ENGL 101.

ENGL 101 F,S,SU English Composition (3-0) 3 Credits

The primary aim of this freshman writing course is to give students instruction and practice in writing mechanically correct, well organized, and well-developed expository themes on topics of importance and significance. This course fulfills a portion of communications general education requirements. (Prerequisites: Successful completion of COMM 92 ENGL 100 or an appropriate score on the placement exam; keyboarding skill are necessary)

ENGL 102 F,S,SU
Advanced English Composition (3-0) 3 Credits

This writing course continues the study of clearly effective written expository prose for those who have successfully completed English 101. In addition, students advance to study more complex methods

of thesis development, particularly argument. Research and documentation procedures are integral subject matter. This course fulfills a portion of communications general education requirements. (Prerequisite: ENGL 101)

ENGL 104 S

Honors English Composition

This honors English course taken in conjunction with a traditional English 102 course continues the study of clearly effective written expository essays for those who have successfully completed English 101 and are participants in the Crowder College Honors Program. In addition, students advance to study more complex methods of thesis development, particularly argument. Research and documentation procedures are integral subject matter. This course fulfills a portion of communications general education requirements and requires students to complete an additional research component. This course is taken within ENGL 102 and is pass/fail; there are no additional credits awarded. (Prerequisite: Limited to Honors Program Participants and completion of ENGL 101)

ENGL 109 F,S,SU Introduction to Literature I (3-0) 3 Credits

Introduction to Literature emphasizes enjoyment, appreciation, and understanding of various types of literature: poetry, drama, and fiction. This course partially fulfills general education humanities requirements. (Prerequisite: College level reading score on appropriate placement exam or completion of LOC 50)

ENGL 113, 114, 213, 214 SDL/Upon Request Topics in Language and Literature 1-4 Credits

An opportunity to participate in a variety of topics and/or projects pertaining to language and literature offers specialized, in-depth study. Students design the course in conference with instructor and division chair.

ENGL 203 S
Technical Report Writing (3-0) 3 Credits

Students are introduced to the practical aspects of preparing business and industrial reports in this course. Techniques of collecting and presenting data are emphasized through quality communication: formal and informal reports, demonstration, presentation and discussion. This course fulfills a portion of A.A.S. Communications general education requirements. (Prerequisite: ENGL 101 or permission of instructor) (Keyboarding skills are necessary)

ENGL 222 F
World Literature I (3-0) 3 Credits

Selected reading in Greek and Roman literature emphasizes epics, dramas, and mythology as well as the Divine Comedy, Don Quixote, and others, emphasizing literature not from British or American authors. (Prerequisite: College level reading score on appropriate placement exam or completion of LOC 50 or completion of the COMM 90 sequence)

ENGL 225 S
World Literature II (3-0) 3 Credits

A survey of landmarks of world literature from the eighteenth century to the twentieth century, emphasizing literature not from British or American authors. (Prerequisite: College level reading score on appropriate placement exam or completion of LOC 50 or completion of the COMM 90 sequence)

ENGL 230 F Survey of American Literature I (3-0) 3 Credits

Selected readings in American literature from its native roots through the end of the Civial War, with emphasis on the oral traditions of native peoples, the poetry and esays of the Puritans and early settlers. Rationalism and Enlightenment treatises supporting the founding of the United States and establishment of its government, and the major writings of Emily Dickinson, Ralph Waldo Emerson, Henry David Thoreau, and Walt Whitman from the American Romantic tradition. The course will include multiple genres, including essays, poetry, short stories, and novels and will fulfill three hours of the nine required humanities for an Associate of Arts degree.

(Prerequisite: College level reading score on appropriate placement exam or completion of LOC 50 or completion of the COMM 90 sequence)

ENGL 235 Survey of American Literature II (3-0)

3 Credits

Selected readings in American literature from 1865 to the present. Periods of American Literature including Realism, Naturalism, Modernism, and Postmodernishm will form the structure of the course and will include work by Mark Twain, Kate Chopin, John Steinbeck, Ernest Hemingway, and Arthur Miller among others. from the American Romantic tradition. The course will include multiple genres, including essays, poetry, short stories, and novels and will fulfill three hours of the nine required humanities for an Associate of Arts degree. (Prerequisite: College level reading score on appropriate placement exam or completion of LOC 50 or completion of the COMM 90 sequence)

ENGL 240 British Literature I (3-0) F

3 Credits

This course will survey the major British authors and works from the Old English period to the eighteenth century, connecting the literature with the historical and cultural influences of the different periods. Readings will include authors such as Chaucer, Marlowe, Shakespeare, Donne, Milton, Swift, Pope, and other major British writers of the Middle Ages to 1790. (Prerequisite: College level reading score on appropriate placement exam or completion of LOC 50 or completion of the COMM 90 sequence)

ENGL 245 British Literature II (3-0)

3 Credits

This course will survey the major British authors and works from the Romantic Movement to the present day, connecting the literature with the historical and cultural influences of the different periods. Readings will include Wordsworth, Keats, Wollstonecraft, Tennyson, Browning, Woolf, Lessing and other influential British writers spanning from the Romantic Movement to the present. This course will include multiple genres, including essays, poetry, short stories, plays, and novels. (Prerequisite: College level reading score on appropriate placement exam or completion of LOC 50 or completion of the COMM 90 sequence)

FIRE SCIENCE

FSCI 111

Firefighter I and II (4-4)

6 Credits

This course places emphasis on those skills and related information necessary to develop a recruit firefighter into a usable member of the firefighting team. The course is divided into 21 subject areas. Recruit firefighters will gain essential knowledge through both lecture and practical skill development. Topics include: fire behavior, building construction, firefighter safety, rescue, extrication, fire control, hazardous materials, and EMS. Successful completion of this course will prepare recruit firefighters for the International Fire Service Accreditation Congress (IFSAC) Certifications for Firefighter I, Firefighter II, Hazardous Materials Awareness, and Hazardous Materials Operations.

GEOGRAPHY

GEOG 111

F,S

World Regional Geography (3-0) 3 Credits
Emphasis in this study of the realms, regions and nations of the world

includes geographical factors such as natural environments and human cultural patterns which affect life on the earth. Students successfully completing this course partially fulfill Social and Behavioral Science general education requirements.

GEOLOGY

GEOL 115

F,S

Introduction to Geology (3-2)

4 Credits

This class introduces students to the basic concepts of Geology. Students will use these concepts to gain an understanding of: (1) the Earth's dynamic processes of formation and change, (2) how those

changes are reflected and identified as its geologic history, and (3) environmental challenges on the planet. This course will partially fulfill the science requirements for the Associate of Arts degree.

GEOL 210 Earth and Space Science for Teachers (2-4)

4 Credits

A laboratory intensive course designed to give students an understanding of the processes of science and the basic concepts of Earth science (Geology, Oceanography, and Atmospheric Science) and Astronomy. This course is designed primarily for students intending to major in elementary education. One-day field trips and

some night-time astronomical observations will be required.

(Prerequisite: PHYS 101)

GRAPHIC DESIGN

ART 190

F,S

Graphic Design I in Illustrator (2-4)

3 Credits

Graphic Design 1 is an introductory course into the world of art and design with an emphasis in learning and using Adobe Illustrator. Students will become proficient in using Illustrator while learning principles for making artwork and developing projects for a working portfolio. Students will learn page layout, illustrative and type skills, while apply those skills toward corporate or small business development and promotional scenarios. Warning: This is a project based class. (Required core for Graphic Design majors.) A course fee will apply.

ART 191

F,S

Graphic Design II in Photoshop (2-4)

3 Credits

Graphic Design 2 is an introductory course into the world of art and design with an emphasis in learning and using Adobe Photoshop. Students will become proficient in using Photoshop while learning principles for making artwork and developing projects for a working portfolio. Students will learn to create, alter, manage, and store digital images and creative illustrations, while apply those skills toward corporate or small business development and promotional scenarios. Warning: This is a project based class. (Required core for Graphic Design majors) A course fee will apply.

RT 192

F

Graphic Design III in Indesign & Web Design (2-4) 3 Credits
Graphic Design 3 is an advanced course into the world of art and
design with an emphasis in learning and using Adobe InDesign, as
well as learning practical web design skills using all available
software (including Facebook!). Students will become proficient in
using InDesign and become comfortable with the ever-changing web

using InDesign and become comfortable with the ever-changing web design outlets while learning principles for making artwork and developing projects for a working portfolio. Projects will be based on real world scenarios with applications for a wide range of companies or small businesses. Warning: This is a project based class. (Required core for Graphic Design majors.) A course fee will apply. (Prerequisites: ART 190 and ART 191)

ART 193

F

Graphic Design in Typography (2-4)

3 Credits

Graphic Design Typography is an advanced course into the world of art and design with an emphasis in learning about, creating, and crafting beautiful letter forms, as well as learning practical professional knowledge in good type use, and how to create type and hand-crafted lettering. Students will become job ready while making artwork and developing projects for a working portfolio. Warning: This is a project based class. A course fee will apply. (Prerequisites: ART 190 and ART 191)

ART 194

S velopment

Graphic Design IV in Portfolio & Professional Development (2-4) 3 Credits

Graphic Design 4 is an advanced course into the world of art and design with an emphasis in creating a strong portfolio for professional use. Students will also learning practical professional knowledge including resume building, interviewing skills and tips, and how to create and manage contracts, while learning about the history of graphic design and its styles. Students will become job ready while making artwork and developing projects for a working portfolio based

on practical scenarios for potential companies or small business. Warning: This is a project based class. (Required core for Graphic Design majors.) A course fee will apply. (Prerequisites: ART 190, ART 191, and ART 192)

ART 195 Graphic Design Animation F Special Topics in Honors
3 Credits Various topics and modes

F,S 1-4 Credits

Introduction to animation and the basics of film editing. Techniques and procedures for applying the principles of animation to produce 2D animated projects using motion graphics software for web and digital media outputs. Students will create a portfolio of animated projects with various applications. Lab fee required. (Prerequisite: ART 190 & ART 191)

HISTORY

HIST 101

F,S

Western Civilization I (3-0)

3 Credits

In this history of Western Civilization from ancient times to the end of the Renaissance/Reformation era, the culture and institutional developments of the early civilizations and classical Europe are stressed. HIST 101 partially fulfills the Social and Behavioral Science or Humanities general education requirement, but not both simultaneously. (Prerequisite: Reading at least at college level)

HIST 102

5

Western Civilization II (3-0)

3 Credits

Cultural developments and the growth of social and political institutions of the post-Renaissance/Reformation Western world are stressed. HIST 102 is a foundation course for understanding contemporary world problems. (Prerequisite: Reading at least at college level) (Note: HIST 101 is not a prerequisite for HIST 102)

HIST 106 U.S. History I (3-0) F,S,SU 3 Credits

This introductory course surveys the development of American culture from the Colonial Period through Reconstruction. The growth of political, social and economic institutions is emphasized. Students successfully completing this course fulfill the Civics requirement in constitutional study within the Social and Behavioral Science general education requirements. (Prerequisite: Reading at least at college level)

HIST 107 U.S. History II (3-0)

F,S 3 Credits

History 107 surveys United States economic, social, political and diplomatic history from Reconstruction to the late twentieth century. Students successfully completing this course fulfill the Civics requirement in constitutional study within the Social and Behavioral Science general education requirements. (Prerequisite: Reading at least at college level) (Note: HIST 106 is not a prerequisite for HIST 107)

HIST 111, 112, 113 Topics in History (1-3) Upon Request 1-3 Credits

These courses provide an opportunity to study selected History topics not covered in the History curriculum or to study in greater depth topics addressed in introductory History courses. The content of these courses may vary from semester to semester and some may require a prerequisite. Check with the Division Chair, instructor or advisor regarding prerequisites for a specific topic course. These courses will transfer but may or may not meet specific degree or program requirements at other institutions. (Prerequisite: Reading at least at college level)

HONORS

HONR 151, 152, 251, 252 Honors Seminar

1-4 Credits

F.S

Students who are participants in the honors program are required to participate in the Honors Seminar course. The class will utilize both a weekly online and traditional class format of instruction as students complete an in-depth examination of the current issues that follow the Phi Theta Kappa International honors topic for the year. For the

Various topics and modes will be used to explore and research contemporary issues which are of interest and importance to society and the student. (Prerequisite: Meet criteria for Honors Seminar and permission of instructor)

participants in 252, students will also complete a capstone project

that requires research project in their major. (Prerequisite: Must be a

participant in the Honors program or a member of Phi Theta Kappa)

ENGL 104

S

Honors English Composition

HONR 103, 104, 203, 204

This honors English course continues the study of clearly effective written expository essays for those who have successfully completed English 101 and are participants in the Crowder College Honors Program. In addition, students advance to study more complex methods of thesis development, particularly argument. Research and documentation procedures are integral subject matter. This course fulfills a portion of communications general education requirements and requires students to complete an additional research component for all honors program participants. (Prerequisite: Limited to honors program participants and completion of ENGL 101)

PLSC 104

F

National, State, Local Gov/t- Honors (3-0)

3 Credits

This is a political science class designed for honors students. The course content is the same as Political Science 103 except this class is writing intensive and, when appropriate, more varied instructional techniques will be used in this class. (Prerequisite: admission to Honors Program or consent of the instructor and reading at the college level)

JOURNALISM AND PUBLIC RELATIONS

COMM 101

S

Introduction to Mass Communications (3-0)

3 Credits

This course surveys the principles, history, and development of the mass media. The roles and effects of radio, television, newspapers, magazines, film, books, advertising, and the recording industry in the political, social, economic and philosophical life of today are examined.

COMM 102

F

Introduction to Public Relations (3-0)

3 Credits

This course introduces students to the theory and principles of public relations. It is designed for students interested in public relations or related fields in mass communications.

COMM 111

- -

Magazine Production (2-2)

3 Credits

s

This course involves students in the magazine process from the collection of raw material through layout and design to the circulation of the finished product. (Prerequisite or co-requisite: ENGL 101)

COMM 112

3 Credits

Magazine Production (2-2)

This course involves students in the magazine process from the collection of raw material through layout and design to the circulation of the *Quill*, Crowder's community literary/art magazine. (Prerequisite: COMM 111)

COMM 150

F

Introduction to Journalism (3-0)

3 Credits

This is an applied journalism course in which the *Sentry*, the student newspaper, is used as a model for the forms and purposes of all phases of journalism: newsgathering, feature writing, layout, advertising and photography. (Prerequisite: Basic computer and keyboarding skills are necessary; Co-requisite or prerequisite: ENGL 101)

COMM 151

F.S

News and Feature Writing (2-2)

3 Credits

Instruction and practice of gathering news materials, writing news reports and logos, rewriting, and preparing photos for layout will be given in the production of the Sentry. (Prerequisite: COMM 150)

COMM 152 Applied Journalism (1-0)

F.S 1 Credit

By special arrangement with the instructor, students may work on the Sentry for one hour credit. They may work as a reporter, photographer, ad salesperson or computer operator. Students work independently through instructor assignments. Prerequisite or corequisite: ENGL 101)

COMM 160

Upon Request 3 Credits

Introduction to Broadcasting (3-0) This course will acquaint students with the historical development of the broadcasting industry, to help gain an appreciation of the roles of broadcasting in a free society and the role government and regulation played in the development of broadcasting.

COMM 171, 172, 173, 271, 272, 273 **Topics in Communication (2-0)**

SDL/Upon Request 1-3 Credits

This course involves the study of selected topics in communication, journalism, and media-related fields that require greater emphasis, different methodology or are not covered in regular classes. Topics are identified by title in the class schedule. May be repeated if a different topic is covered.

COMM 211

Magazine Production I (3-0)

3 Credits

This course is designed for students who wish to continue their participation in the publication of the Crowder Quill. (Prerequisite: COMM 111 and 112)

COMM 212

3 Credits

Magazine Production II (3-0)

This course is designed for students who wish to continue their participation in the publication of the Crowder Quill. (Prerequisite: COMM 211)

COMM 220

F,S

Photocommunication I (3-0) 3 Credits

An introduction to the essential processes and practices of photography, this course emphasizes digital imaging and manipulation as well as photojournalism principles and skills. Students are expected to provide their own digital single-lens reflex (DSLR) camera. Students should have a basic understanding of computer functions prior to enrolling in the class.

COMM 225 Internship (0-8) **Upon Request**

3 Credits

Students enrolled in this course gain first-hand experience on the job working 135 hours during the term in a program designed by the sponsor, student, and instructor as a capstone experience. Internships may be completed in newspaper techniques, broadcast, advertising, public relations, or other approved media-related fields. (Prerequisite: Successful completion of at least 15 credits in a related field and instructor approval. Pass/Fail)

COMM 231

Photocommunication II (3-0)

This course continues COMM 220 (Photocommunication I) with further emphasis on lighting and shooting procedures as well as digital darkroom techniques, such as editing, enhancing, and manipulation. Emphasis will also be placed on storytelling with newsworthy images. Students are expected to provide their own digital single-lens reflex (DSLR) camera. (Prerequisite: COMM 220)

COMM 250

Computer Journalism, Layout and Production (2-2) 3 Credits

This course places emphasis upon the use of the computer, using desktop publishing programs. The Sentry will provide practical journalistic experience. (Prerequisite: COMM 150, COMM 151)

COMM 251

F.S

Journalistic Editing (2-2)

Emphasis is placed upon the practices and principles of copy reading, headline writing, illustration, staff selection, copy layout and printing through editorial experience on the Sentry. (Prerequisite: COMM 150)

COMM 252

F,S

Applied Journalism (1-0)

1 Credit

By special arrangement with the instructor, students may work on the Sentry for one-hour credit. Students work independently through instructor assignments. (Prerequisite: COMM 152)

LANGUAGES

ASL 101

F,S

Beginning American Sign Language I (3-0)

3 Credits

Beginning American Sign Language (ASL) I will focus on developing conversational skills between deaf and hearing individuals using both fingerspelling and ASL manual signs. Comprehension skills and linguistic features of the ASL language will be emphasized. This class may apply toward the Humanities General Education requirement, or may apply toward a foreign language requirement for a bachelor of arts, but may NOT apply toward both.

ASL 102

S

Beginning American Sign Language II (3-0) 3 Credits Beginning American Sign Language (ASL) II will continue the development of ASL skills. Expressive and ASL receptive communication will be enhanced. Additional ASL vocabulary will be learned. (Prerequisite: ASL 101) This class may apply toward the Humanities General Education requirement, or may apply toward a foreign language requirement for a bachelor of arts, but may NOT apply toward both.

FREN 101

Beginning French (3-0)

3 Credits

This is a multimedia course that combines video, audio and print to teach French language and culture. It immerses the student in current, living French in everyday situations, spoken by natives. Its focus is on communication and proficiency. This class may apply toward the Humanities General Education requirement, or may apply toward a foreign language requirement for a bachelor of arts, but may NOT apply toward both. Not offered at the Neosho campus.

SPAN 101

F,S

Beginning Spanish (3-0)

This is a multimedia course that combines video, audio, interactive software, and print to teach Spanish language and culture. It immerses the student in current, living Spanish in everyday situations, spoken by natives. Its focus is on communication proficiency. This class may apply toward the Humanities General Education requirement, or may apply toward a foreign language requirement for a bachelor of arts, but may NOT apply toward both.

SPAN 102

Beginning Spanish II (3-0)

Upon Request 3 Credits

This course continues the study of Spanish language and culture. It immerses the student in current, living Spanish in everyday situations. Its focus is on communication proficiency. This class may apply toward the Humanities General Education requirement, or may apply toward a foreign language requirement for a bachelor of arts, but may NOT apply toward both. (Prerequisite: SPAN 101 or permission of the instructor)

SPAN 103

Upon Request

Introduction to Hispanic Culture (3-0)

3 Credits

This course offers a brief introduction to Hispanic culture through examples of art, journalism, literature and music from and about Spain and Latin America. Knowledge of Spanish is not required.

SPAN 105

Upon Request

Conversational Spanish (3-0)

3 Credits

This course is geared to those who have knowledge of the Spanish

language. This course emphasizes idiomatic usage, vocabulary, grammar, and syntax. There is a focus on acquisition and development of skills necessary for effective oral and written communication. Hispanic culture, history, art, and literature will be highlighted in course materials, student presentations, and writing assignments. The material covered in this course is designed not only to meet the educational needs of traditional students of the language, but also the needs of the heritage language speakers who enter the Spanish program with some or all of the four language skills developed to varying degrees. Students will be required to log conversation hours with the instructor and classmates. Students will be required to pay for and take the computerized Oral Proficiency Interview (OPIc). This assessment costs \$115, and scholarships are available through the Spanish department. (Prerequisites: SPAN 102 or equivalent)

SPAN 106 Upon Request Basic Conversational Spanish II (3-0) 3 Credits

This is a continuation of Conversational Spanish I (SPAN 105) that includes conversational practice and cultural, historic, art and literary readings and discussions with student presentations and writing assignments. Students will be required to log conversation hours with the instructor and classmates. This class may apply toward a major requirement for an A.A. in Spanish. (Prerequisite: SPAN 105 or equivalent)

SPAN 111 Upon Request Introduction to Spanish for Health Care Workers 3 Credits

This is a multimedia course that combines video, audio, and print to introduce students to medical terms and elementary non-medical expressions in Spanish. This course is designed for students who work/plan to work in health care and who want to learn Spanish phrases as related to their daily activities. The course activities are divided into 2 major sections: First, basic language skills that are taught using the textbook, "an Introduction to Spanish for Health Care Workers"; Second, the memorization of dialogs related to specific medical tasks (e.g., assessing medical history, assessing health risks, making appointments, etc.). This course is not a Spanish language (grammar) course per se, but it designed to teach health care workers how to do specific tasks in Spanish. As such, there is no specific Spanish prerequisite to be enrolled in this course. All health care workers/students who are interested in acquiring the basic Spanish skills as related to their daily activities are encouraged to enroll in this course. Students who are interested in acquiring the Spanish language in general are invited to enroll in traditional Spanish language (grammar) courses. This class may apply toward a major requirement for an A.A in Spanish.

SPAN 112 Upon Request Introduction to Spanish for Health Care Workers II 3 Credits

This is a multimedia course that combines video, audio, and print to introduce students to medical terms and elementary non-medical expressions in Spanish. This class may apply toward a major requirement for an A.A. in Spanish. (Prerequisite: SPAN 111 or permission of instructor)

SPAN 107, 108, 109, 207, 208, 209 SDL/Upon Request Topics in Spanish 1-3 Credits

This course covers topics not normally included in another class. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering. May be repeated. These classes may apply toward major requirements for an A.A. in Spanish.

SPAN 201 Upon Request Intermediate Spanish (3-0) 3 Credits

This course continues the study of Spanish language and culture. It immerses the student in current, living Spanish in everyday situations. Its focus is on communication proficiency. This class may apply toward a major requirement for an A.A. in Spanish or may apply toward a foreign language requirement for a bachelor of arts. (Prerequisite: SPAN 102 or permission of instructor)

SPAN 202 Upon Request Intermediate Spanish II (3-0) 3 Credits

This course continues the study of Spanish language and culture. It

immerses the student in current, living Spanish in everyday situations. Its focus is on communication proficiency. This class may apply toward a major requirement for the A.A. in Spanish or may apply toward a foreign language requirement for a bachelor of arts. (Prerequisite: SPAN 201 or permission of instructor)

LEARNING OPPORTUNITIES

2 Credits

COMM 91, 92, 93, 94 Developmental Communication Arts (0-4)

This course provides integrated reading and writing and college success instruction. The course includes success strategies for disciplines across the curriculum, advanced critical reading skills to facilitate comprehension of academic text, discipline specific vocabulary, and utilization of the writing process to compose paragraphs utilizing the standards of conventional writing for academic purposes. College success knowledge, skills, and dispositions are integrated throughout the course. The course is offered on a credit / no credit basis. Mastery of at least twenty-five percent of the course competencies is required to earn the two hours credit. These credits cannot be applied to requirements for graduation. A letter grade will not be given, and there will be no impact on the student's grade point average. A course fee will apply.

ELI 30 F,S ELI Basic I (6-0) 6 Credits

This course provides non-native speakers with intensive training in basic English skills to acquire vocabulary and apply knowledge of the English language structure and mechanics to understand basic spoken English, participate in oral communication at the beginning level, comprehend brief, simplified printed material, and produce short, clear and logical written text. (Placement by Assessment) A course fee will apply.

ELI 32 F,S ELI Basic 2 (6-0) 6 Credits

This course provides non-native speakers with intensive training in basic, moving towards more complex and intermediate, English skills to acquire vocabulary and apply knowledge of the English language structure and mechanics to understand basic spoken English, participate in oral communication at the beginning level, read simplified printed material, and produce clear and logical written text. A course fee will apply. (Placement by Assessment)

ELI 33 F,S ELI Intermediate (6-0) 6 Credits

This course provides non-native speakers with intensive training in intermediate English skills to acquire vocabulary and apply knowledge of the English language structure and mechanics to understand spoken English, participate in oral communication at the intermediate level, comprehend simplified printed material, and produce clear and logical written text. (Prerequisites: ELI 30 and ELI 32 and/or placement by assessment) A course fee will apply.

ELI 35 F,S ELI Advanced (3-0) 3 Credits

This course provides non-native speakers with intensive training in advanced English skills to acquire vocabulary and apply knowledge of the English language structure and mechanics to understand spoken English, participate in oral communication at the advanced level, comprehend printed material, and produce clear and logical written text. (Prerequisites: ELI 33 and/or placement by assessment)

ELI 37, 38, 39, 40 F,S ELI Special Topics (3-0) 3 Credits

This course provides non-native speakers with specialized training in a focused set of English language skills. The special topics covered will be determined by the student's current language proficiency and expressed language acquisition goals in cooperation with the ELI instructor. (Prerequisites: ELI 30 and ELI 32 and/or placement by assessment)

LOC 100

F.S 3 Credits

College Success (3-0)

This course is designed to increase success in college by assisting students in the acquisition and mastery of skills necessary for students to reach their personal and educational goals. topics include time and stress management, test taking, communication skills, study techniques, question-asking skills, community resources, college transfer issues, career planning, budget planning, and personal issues that they may face as a college student. A course fee will apply.

College Connections (3-0)

3 Credits

College Connections is designed as an academic intervention and application course. The course is required for students on academic probation. This course will assist students in the acquisition and mastery of implementing many proven strategies to create greater academic, professional, and personal success. Individual and group discussions, activities, and assignments, guided journal writing, as well as personal one-on-one meetings are part of the course. A grade of "C" or higher is required to meet academic status requirements. (Prerequisite: Only students on academic probation or returning from suspension may enroll in this course) A course fee will apply.

LOC 105

Career Directions (1-0)

1 Credit

This course is designed to help students discover what their personal interests, values, and talents are, and to learn how to use this knowledge to help them in choosing a career. Taking this course can shape their educational experiences at Crowder College and help them understand how career choices can impact their lifestyle. (Course location varies)

LOC 206

Career Exploration (0.5-1.25)

1 Credit

This course provides students with the opportunity to refine their career plan, to practice job search skills such as interviewing and professional communication, and to evaluate their career goals. Students will complete a combination of an eight hour equivalent of class meetings and twenty hours of on-site field experience. (Course location varies)

MANAGEMENT

BMGT 115

Customer Service (3-0)

F.S 3 Credits

This course covers the critical workplace skills necessary for providing effective customer service in today's professional environment. Areas covered include identifying customers, problem solving, listening, communicating with customers, etiquette, time management, teamwork, and telephone skills.

BMGT 175

F.S

Management (3-0)

3 Credits

This course is an introduction to the management of organizations of various sizes. The focus is on the four management functions: planning, organizing, leading, and controlling, and how to deal with the constant state of change in the workplace and in the competitive environment.

BMGT 200 Marketing (3-0)

F.S 3 Credits

This course is an introduction to the marketing process and organization of different types of businesses. The focus is on the identification of the marketing techniques and attitudes necessary to make a marketing plan successful. This course provides a detailed examination of the strategies necessary for businesses to compete in today's environment. This class will also examine various marketing tactics including pricing, promotion, advertising, and salesmanship.

BMGT 223

F.S

Business Ethics (3-0)

3 Credits

The focus of this course will be the ethical dilemmas faced by businesses. The methods used to evaluate ethical alternatives can be applied by the students to their individual situations as well as in preparation to direct companies in ethical decision-making.

BMGT 285

S

Human Resource Management (3-0)

3 Credits

This course emphasizes various uses of a firm's human resources. Personnel Management evaluates and compares personnel policies in recruiting, selecting, transferring, promoting, classifying, motivating and training. (Prerequisite: BSAD 150)

BMGT 290

FS

Business Management Internship (1-2)

2 Credits

Supervised work experience allows the student to apply skills in an actual business or office situation. Students will be required to gain experience in the area in which they are seeking a degree. Students will meet once a week in class and will work 80 hours during the semester in supervised work experience. This course should be taken during the student's final semester.

BMGT 197, 198, 199, 297, 298, 299 Topics in Business Management (1-3) As Needed 1-3 Credits

Instruction will be provided as the need arises on topics in Business Management. Topics are identified by title in the class schedule. This course may be repeated if the topic is different.

MATHEMATICS

MATH 80

Support for Quantitative Reasoning (2-0)

F,S,SU 2 Credits

This course is a co-requisite to Quantitative Reasoning (MATH 125). It is designed to provide additional support and just-in-time instruction on skills needed for students to succeed in MATH 125. This course will not count towards degree requirements.

MATH 85

Support for Elementary Statistics (2-0)

2 Credits

This course is a co-requisite to Elementary Statistics (MATH 130). It is designed to provide additional support and just-in-time instruction on skills needed for a student to succeed in MATH 130. This course will not count towards degree requirements.

MATH 100

F,S,SU

Intermediate Algebra (3-0)

3 Credits

This preparatory course is for students whose placement scores indicate a need for additional algebra. Topics include linear equations, graphing, systems of equations and polynomials. This course will not satisfy most degree requirements for mathematics. It will count as an elective on your transcript. (Prerequisite: An appropriate math placement score)

MATH 104 Technical Mathematics (3-0)

3 Credits

Technical Mathematics applies practical concepts of mathematics to a variety of real world problems. This class is specifically designed to meet the needs of students in the college's AAS Technology programs. This class will not satisfy the general education requirement for an Associate of Arts degree. (Prerequisite: An

MATH 108

Basic and Intermediate Algebra (5-0)

appropriate math placement score)

5 Credits

This course provides students with the same algebraic skills discussed in MATH 100 (Intermediate Algebra) with additional review and practice of elementary algebraic skills. Topics include: introduction to exponents and polynomials, equations, inequalities, applications, graphing, functions, and systems of equations. This course will not satisfy most degree requirements for mathematics. It will count as an elective on your transcript. (Prerequisite: An appropriate math placement score)

MATH 112

F.S

Trigonometry (3-0)

3 Credits

Trigonometry involves the study of the six trigonometric functions and their applications. (Prerequisite: MATH 100 or an appropriate placement score)

MATH 125 Quantitative Reasoning (3-0)

F.S.SU 3 Credits

This course studies the skills necessary to process and communicate quantitative information found in daily life. Specific topics include: probability, statistics, proportional reasoning, modeling data, financial mathematics, and problem solving. This course will satisfy most degree requirements in Mathematics and should transfer to most four -year institutions. (Prerequisite: An appropriate math placement score)

MATH 130

Elementary Statistics (3-0)

3 Credits

This is a first course in statistics for any student whose college and career paths require knowledge of the fundamentals of the collection, analysis, and interpretation of data. Topics include the presentation and interpretation of univariate data using graphical and numerical methods, probability, discrete and continuous probability distributions, linear regression, an understanding of good practice in study design, statistical inference, confidence intervals, and hypothesis testing. Emphasis is placed on the development of statistical thinking. (Prerequisite: Placement by appropriate placement score)

MATH 135 Algebra for Calculus (3-0)

F, S, SU 3 Credits

This course studies the foundations of functions, analysis of functions, algebraic reasoning, and conic sections. It is designed for students who intend to pursue a degree in the fields of Science, Technology, Engineering, or Mathematics, as well as other fields that require a high level of algebraic reasoning. This course is intended to prepare students for higher level mathematics courses, but will satisfy most degree requirements in Mathematics and should transfer to any four-year institution. (Prerequisite: Placement by an appropriate placement score)

MATH 150 Calculus I, Part I (2-0)

F.S 2 Credits

This course begins a sequence of calculus and analytical geometry courses. Topics include the derivative and its applications. (Prerequisite: MATH 135 (may be taken concurrently) or an appropriate placement exam score; MATH 112 (may be taken concurrently) or an appropriate placement score.)

MATH 160

Calculus I, Part II (3-0) 3 Credits

This course continues the study of Calculus, including applications of the derivative, L'Hopital's Rule, and the integral (Prerequisite: MATH 150)

MATH 201

Calculus II (5-0)

5 Credits

This course continues the calculus/analytic geometry sequence. Topics include various methods and applications of integration, sequences and series, parametric curves and the polar coordinate system. (Prerequisite: MATH 160)

MATH 202 Calculus III (5-0)

5 Credits

This course completes the calculus/analytical geometry sequence. Topics include vectors, vector-valued functions, graphing in three dimensions, calculus of multiple variables, line and surface integrals. (Prerequisite: MATH 201)

MATH 210

S

Differential Equations (3-0)

Differential Equations provides methods for the solution of standard types of ordinary first and second order differential equations. The use of numerical techniques, the Laplace transform, power series and linear methods of solution are examined. (Prerequisite or corequisite: MATH 202)

Math 271, 272, 273

Topics in Mathematics

1-3 Credits

A variable content course with areas of study that reflect current issues. Topics are identified in the course schedule and prerequisites are spelled out in the syllabus. (Prerequisite: Permission of department)

MUSIC

MUSC 101 Music Appreciation (3-0) F,S,SU

This survey of the development of music from the Middle-Ages to the present includes an examination of the cultural forces which shaped the musical expressions of each era. The course is designed to provide the students with the musical vocabulary and listening techniques for a meaningful and enriching understanding and appreciation of music literature.

MUSC 115

F,S

Elementary Class Piano II (1-2)

1 Credit

This course is a continuation of elementary Class Piano I with the study of beginning standard piano literature.

MUSC 118, 119, 218, 219

Music-Theatre Participation

1-2 Credits

This course offers credit to students who participate in music-drama productions under supervision of the music instructor. Hours are to be arranged. A maximum of four credit hours may be applied toward graduation if the course is repeated. (Prerequisite: permission of the instructor)

MUSC 195, 196, 295, 296 Community Mixed Chorus (0-4) 1-2 Credits

This course welcomes all students and community residents. Weekly rehearsals are scheduled in preparation for public performance on off -schedule basis.

MUSIC, APPLIED Private Lessons (Open to All Students)

F.S 1 Credit

This course will provide individual instruction in vocal technique (i.e. breathing, breath support, tone production), while also covering the stylistic elements of performance, stage presence, vocal diction and other aspects of singing. Private voice lessons are open to all students. One half-hour lesson per week = 1 credit hour. One hour

lesson per week = 2 credit hours. A course fee will apply.

MUSC 120, 121, 220, 221 Piano

MUSC 140, 141, 240, 241 Voice

MUSC 180, 181, 280, 281 Guitar

2 Credits

MUSC 122, 123, 222, 244 Piano

MUSC 142, 143, 242, 243 Voice

MUSC 182, 183, 282, 283 Guitar

PRACTICAL NURSING

PN 150

Personal & Vocational Concepts I (3-0)

3 Credits

Concepts emphasized are those relating to stress, time management, study skills, nursing history, nursing process, personal & social wellness, therapeutic communications, cultural & spiritual differences.

PN Anatomy & Physiology (3-1)

4 Credits

This course is designed to furnish the beginning student with a basic understanding of how the parts of the body are structured & how they perform the complex functions necessary to maintain life. Vocabulary & spelling are stressed. This course provides the basis for other nursing courses.

PN 152

Fundamentals in Nursing I (3-1)

4 Credits

Introduction of skills & concepts that allows performance of basic patient care. Included are theories of wellness, physical & emotional support of patients, safety issues, medical vocabulary, growth & development principles, and skill check-offs.

PN 153

Fundamentals in Nursing II (3-2) 5 Credits

Building on the skills of Fundamentals I, this course presents more complex nursing skills in classroom and laboratory. Skill competency, CPR, time management, scenarios, therapeutic relationships, and direct patient care are performed in a patient care setting with direct supervision. The IV therapy major emphasis is to prepare the LPN to participate in IV fluid therapy. Student must pass IV therapy final examination with an 85% or better in order to graduate from the PN program as required by MO rule 4 CSR 200-3.100. (Prerequisite: PN 152)

PN 154

Medical Surgical Nursing I (4-0)

4 Credits

Instruction involves scientific principles associated with illness, effects on body systems & current trends in patient care. Course will include both nutritional and pharmacological aspects that apply to each disease/disorder. (Prerequisite: PN 151)

PN 155

Introduction to Pharmacology (5-0)

5 Credits

This course includes an assessment of current knowledge of simple multiplication, division, fractions, decimals, and percentages. Rounding rules will be discussed. Course also covers principles of drug actions and interactions, the nursing process as it relates to pharmacology, patient education and health promotion, medication calculations, principles of medication administration and an introduction to drug classifications. Students must pass a Math for Meds final with a 90% or above to remain in this nursing program.

PN 156

Gerontology (3-0)

3 Credits

Modification of nursing skills to maintain & optimize the quality of life of the aging client is stressed.

PN 250

Fundamentals in Nursing III (0-8) 8 Credits

Continuing the progression from most basic to more complex, this course extends into the realm of clinical nursing practice. Previously learned skills, care mapping, and problem-solving methods are transferred to patient care in a variety of clinical settings and under direct supervision. Leadership skills are enhanced by using the knowledge gained and the supervision of preceptors and instructors. Students participate in scheduled activities such as preschool screening, case study, and simulation scenarios. Prerequisite is successful completion of Fundamentals of Nursing I, II, and III. (Prerequisite: PN 153)

PN 251

Medical Surgical Nursing II (10-0)

0 Credit

Building on the skills of Medical/Surgical Nursing I, instruction involves scientific principles associated with illness, effects on body systems & current trends in patient care. Course will include both nutritional and pharmacological aspects that apply to each disease/disorder. (Prerequisite: PN 154)

PN 252

Maternity Nursing (3-0)

3 Credits

This course is designed to provide students with the skills & scientific knowledge base to perform basic patient care of the maternity patient/family in a variety of settings. Critical thinking & ethical decision-making are stressed.

PN 253

Pediatric Nursing (2-0)

2 Credits

This course emphasizes nursing care of children with common childhood illnesses as well as children with special problems.

PN 254

Personal & Vocational Concepts II (2-0)

2 Credits

This course will cover legal & ethical decision-making, leadership & management styles, delegation, quality assurance, resume writing, and job interviewing skills. (Prerequisite: PN 150)

PN 255

Mental Health & Mental Illness (3-0)

3 Credits

This course is to assist the student in developing a basic understanding of anxiety and its relationship to stress & change. The mental illness component is designed to enable students to recognize maladaptive behaviors and ineffective coping mechanisms.

REGISTERED NURSING

ADN 200

Transition (LPN's only) (2-0)

2 Credits

This is a specially designed course for licensed practical nurses entering into professional nursing. This course provides essential concepts, skills, and simulations to facilitate the assimilation of knowledge and incorporation of the professional nursing role. (Prerequisite: Student must be an LPN and admitted to the ADN program, BIOL 220 and BIOL 252)

ADN 260

Nursing Interventions III (4-0)

4 Credits

This course utilizes a nursing framework to plan care for the clients with altered health states throughout the life cycle. Nutritional and pharmacological aspects of care will be included. Methods of evaluating care based on expected outcomes will be emphasized. A course fee will apply. (Prerequisite: ADN 170 or ADN 200 and BIOL 220; Co-requisite: MATH 125, MATH 130, or MATH 135)

ADN 263

Nursing Concepts II (2-0)

2 Credits

This course incorporates theories in leadership and management. Topics introduced in Nursing Concepts I will be further developed such as legalities and ethics. Collaboration with the management team and other health professionals, delegation, prioritization, quality improvement, time management, and professional communication will be explored. Conflict management and assertiveness training will be included. (Prerequisite: ADN 163)

ADN 267

Clinical III (0-12)

3 Credits

This course provides clinical experiences in addition to simulation in promoting accountability, responsibility, and communication within the health care team. Dosage calculation opportunities may be provided. The student will be given the opportunity to master nursing skills in a variety of settings. A course fee will apply. (Prerequisites: ADN 177 or ADN 200)

ADN 268

Pathophysiology (3-0)

3 Credits

This course utilizes principles of adult learning and a nursing framework to relate pathophysiologic concepts to nursing care. Disease processes are discussed in terms of nursing problems. (Prerequisite: BIOL 152)

ADN 272

Psychosocial Nursing (2-0)

2 Credits

This course utilizes the nursing process to develop a safe plan of care for individuals with problems related to coping and adaptation throughout the life cycle. Emphasis will be on helping the student become more sensitive to human behavior and the therapeutic use of self. Pharmacological and nutritional aspects of care will be included. (Prerequisite: PSYC 101 or SOC 101, ADN 260, ADN 263, & ADN 267)

ADN 277

Clinical IV (0-12)

3 Credits

This course provides clinical experiences and simulation in promoting

accountability, responsibility, and communication within the health care team. Dosage calculation opportunities will be provided. The student will be given the opportunity to master nursing skills in a variety of settings. Evidenced-based nursing care will be emphasized. A course fee will apply. (Prerequisite: ADN 267)

ADN 279

Nursing Interventions IV (3-0) 3 Credits

This course builds on the concepts introduced in Nursing Interventions III for the care of the adult medical-surgical clients with multi-system alteration. Advanced nursing skills in specialty units will be emphasized. A course fee will apply. (Prerequisite: ADN 260)

ADN 280

Advanced Pharmacology (3-0) 3 Credits

The advanced Pharmacology course offers an in-depth discussion of current medications being utilized with an emphasis on nursing responsibility in administering and monitoring them. Discussion of the way medications are absorbed, metabolized, distributed and excreted will be included. The student will review the physiology of major body systems and explore the interaction of medications with individual systems. Nursing considerations will be presented through the nursing process including nutrition, supportive care and patient teaching with application through the life span. (Prerequisites: Admission to the ADN Program or completion of an accredited licensed practical nursing program, or a Registered nurse or by permission of the instructor)

ADN 281

Dosage Calculation III (1-0)

1 Credit

This course will provide and build on basic dosage calculations learned in Dosage Calculation I & II with emphasis on blood modifying, OB titrations, and metabolic dosage calculations.

ADN 282

Dosage Calculation IV (1-0)

1 Credit

This course will build on basic dosage calculations learned in Dosage Calculations I, II, and III with emphasis on developing and expanding critical dosage calculations as related to the Critical Care Setting.

NURS 111

Health Concepts IA (2.5-0.5)

3 Credits

This course introduces students to beginning nursing concepts for health promotion. Emphasis is placed on basic assessment skills and the ability to safely perform foundational psychomotor skills. (Prerequisite: BIOL 152)

NURS 112

Health Concepts IB (2.5-0.5)

3 Credits

This course introduces students to therapeutic communication, normal growth and development, and safe, evidence-based interventions through application of the nursing process. Students will also have the opportunity to continue developing psychomotor nursing skills needed to assist individuals in meeting basic human needs. (Prerequisites: NURS 111)

NURS 121

Health Concepts IIA (2.5-1.5) 4 Credits

This course focuses on beginning prioritizations skills when caring fr the patient throughout the lifespan experiencing commonly occurring acute and chronic illnesses, including common medical-surgical and mental health problems. Students will have the opportunity to apply this knowledge in a variety of health care experiences. (Prerequisites: NURS 112)

NURS 122

Health Concepts IIB (2.5-1.5) 4 Credits

This course will provide focus on perinatal care with normal variances. Assessment and care of the newborn will be a primary focus on this course. Students will have the opportunity to apply this knowledge in a variety of health care experiences. (Prerequisites: NURS 121, NURS 141 & NURS 172)

NURS 141

Pharmacology I (1-.50.5)

2 Credits

This course introduces students to safe administration practices using a variety of routes and basic dosage calculations. (Prerequisite: NURS 171)

NURS 142

Pharmacology II (1-0)

1 Credit

This course continues to focus on the nurse's role in medication safety, administration, and calculations for drugs given to patients experiencing acute and chronic illnesses across the lifespan. Medications given in maternal-child health settings will also be discussed. (Prerequisite: NURS 141)

NURS 171

Professional Concepts I (1-0)

1 Credit

This course introduces students to the role of the professional nurse, focusing on QSEN and core curricular concepts.

NURS 172

Professional Concepts II (1-0)

1 Credit

This course builds on concepts learned in PN 1 and further explores professional nursing including concepts of legal issues, ethics in nursing care, healthcare organizations, and clinical judgement. (Prerequisite: NURS 171)

NURS 201

LPN to RN Transition (2-0)

2 Credits

This course is designed for the licensed practical nurse entering into professional nursing. The course provides essential concepts and skills to facilitate the assimilation of knowledge and incorporation of the professional nursing role for currently licensed practical nurses that have been selected for admission to the Associate Degree of nursing program. (Prerequisites: BIOL 152, COLL 101, MATH 125, 130 or 135; Co-requisite: BIOL 220 & 252)

NURS 211

Health Concepts IIIA (2-2)

4 Credits

This course builds on concepts learned in earlier courses by focusing on prioritizing and collaborating nursing care if patients with acute and chronic complex health problems across the life span. Students will have the opportunity to apply this knowledge in a variety of health care experiences. (Prerequisites: NURS 122, NURS 142 & NURS 172)

NURS 212

Health Concepts IIIB (2-2)

4 Credits

This course focuses on inter-professional collaborative care of patients with multi-system health problems, including patients who are acutely and critically ill across the lifespan. In this course, the student applies previously learned concepts and theories related to the care of individuals, families or groups experiencing a critical disruption in one or more needs. Students will have the opportunity to prioritize and translate this knowledge in a variety of health care experiences. (Prerequisite: NURS 211)

NURS 221

Health Concepts IV (2-1)

3 Credits

This course focuses on inter-professional collaborative care of patients with multi-system health problems, including patients who are acutely and critically ill across the lifespan. In this course, the student applies previously learned concepts and theories related to the care of individuals, families or groups experiencing a critical disruption in one or more needs. Students will have the opportunity to prioritize and translate this knowledge in a variety of health care experience. (Prerequisite: NURS 212)

NURS 241

Pharmacology III (1-0)

1 Credit

This course focuses on nursing interventions associated with medications used for patients experiencing complex medic-surgical, and mental health problems. (Prerequisite: NURS 142)

NURS 242

Pharmacology IV (1-0)

1 Credit

This course builds on previous pharmacology courses within the program with emphasis on medications and dosage calculations for adult patients with multi-system and emergent health problems. (Prerequisites: NURS 241)

NURS 271

Professional Concepts III (2-0)

2 Credits

This course expands the student's appreciation for the role of the nurse leader and manager of care in a variety of health care organizations. (Prerequisite: NURS 172)

NURS 290

Nursing Capstone (1.5-0.5)

2 Credits

This course will examine State Licensure and NCLEX testing processes. Clinical simulation will be utilized to assess individual clinical reasoning and judgment. (Prerequisites: NURS 221, NURS 242)

OCCUPATIONAL THERAPY ASSISTANT

(Offered only at Webb City)

OTA 101

Principles of Occupational Therapy (2-0)

2 Credits

This course will examine the role of occupational therapy in health care, community-based and educational systems. Topics include: history, philosophical principles, the *Occupational Therapy Framework: Domain and Process, Standards of Practice, Code of Ethics*, current and emerging practice areas. This course will also address the roles of the registered occupational therapist, certified occupational therapy assistant, national and state credentialing requirements, and occupational therapy association functions at all levels. A course fee will apply. (Co-requisites: OTA 111 & OTA 116)

OTA 116 S Principles of Therapeutic Intervention (2-2) 3 Credits

This course covers basic understanding of relevant occupations and purposeful activities used in occupational therapy programs. Lab work performed relates to children and adult occupations and activities. These include, but are not limited to: leather craft, beading, basic woodworking and rehabilitation technology with an emphasis on meaningfulness to the client to encourage participation and independence. These activities are related to the domains of occupational therapy. Activity analysis, group activities, activity adaptation, application of the Practice Framework, maintenance of the Occupational Therapy (OT) service environment, and teaching/lifelong learning are incorporated. A course fee will apply. (Corequisites: OTA 101 and OTA 111)

OTA 125 S Occupational Therapy Documentation (2-0) 2 Credits

This course will examine documentation of occupational therapy services. This course will include use of professional language and proper documentation for Occupational Therapy Services. This course will address understanding and writing of documentation, electronic documentation, and goal writing in diverse Occupational Therapy settings. (Co-requisites: OTA 101 & OTA 116)

OTA 131 F,S Functional Movement: Occupation and Adaption (2-2)

3 Credits

This course will present the basic principles of biomechanics and kinesiology related to human movement and occupational performance. To analyze functional movement required for work, self-care, and play this course will study the interrelationship among the central nervous system, peripheral nervous system, musculoskeletal system, anatomical landmarks, joints, posture, balance, and locomotion. A course fee will apply. (Prerequisite: BIOL 252 and MATH 125, 130 or 135; Co-requisites: OTA 140 and OTA 201)

OTA 199 F,S

Occupational Therapy: An Overview (1-0)

1 Credits

This course will introduce the profession of Occupational Therapy. This course provides an overview of the history, philosophy, and role of Occupational Therapy in the health care environment as well as describing the educational requirements of Occupational Therapy practitioners.

OTA 201 F Principles of Occupational Therapy Practice: Children and Adolescents (4-2) 5 Credits

This course will provide a review of human development from birth through adolescence, with emphasis on occupational performance of typical and atypical individuals. Topics include: theory and application, frames of reference, observation skills, assessment, adapting, intervention, documentation, the occupational therapy process, evidence-based practice, ethics and roles of the Occupational Therapist and Occupational Therapy Assistant in service delivery and in various practice settings. A course fee will apply. (Prerequisite: OTA 116; Co-requisites: OTA 131 and OTA 140)

OTA 211 S Principles of Occupational Therapy Practice: Mental Health (3-4) 5 Credits

This course will examine the occupational therapy process in relation to individuals with psychosocial challenges across the lifespan and focus on observation skills, assessment, documentation, teaching, adapting, and grading self-care, work, play/leisure occupations for individuals and groups with psychosocial challenges. Topics include: clinical features, group dynamics, therapeutic use of self, interventions, evidence-based practice, ethics, and issues impacting psychosocial Occupational Therapy practice. This course includes Level I fieldwork component consisting of eight hours a week for 6 weeks in a practice setting. A course fee will apply. (Prerequisite: OTA 116; Co-requisites: OTA 236 and OTA 221)

OTA 218 S Occupational Therapy Test and Fieldwork Preparation (2-0) 2 Credits

This course is designed to prepared individuals for their national certification test and Level II fieldwork experiences. This course will include examination of the steps needed to register for the national certification test and the use of problem solving skills to improve performance on the test. This course will address the guidelines required for Level II fieldwork experiences and reinforcement of professional behavior. (Prerequisite: OTA 201; Co-Requisite: OTA 236 and OTA 221)

OTA 221 S Principles of Occupational Therapy Practice: Physical Rehabilitation (3-4) 5 Credits

This course will focus on the occupational therapy (OT) process in relation to persons with physical disabilities, development of observation skills, assessment, treatment, teaching, adapting, grading self-care, work, and play/leisure occupations for individuals with physical challenges. Topics include techniques and equipment to maximize participation in meaningful occupations, improve independence, ensure safety, prevent deformity and other issues impacting physical rehabilitation OT practice. A course fee will apply. (Prerequisite: OTA 131; Co-Requisites: OTA 211 and OTA 236)

OTA 228 S Occupational Performance Across the Lifespan(3-0)

3 Credits

This course will focus on the observations, analysis, and performance of human occupations in work, self-care, and play/ leisure throughout the life span. The teaching and learning process and the language of occupational therapy will be incorporated. (Corequisites: OTA 101 and OTA 116)

OTA 236 F,S Occupational Performance Issues in Later Adulthood (3-2) 4 Credits

This course will cover Occupational Therapy (OT) related geriatric issues. Topics include: study of the normal aging process, physical,

psychosocial and cognitive dysfunctions common to the elderly, OT practice framework domain, process and therapeutic intervention with the geriatric population. This course will emphasize the importance of patient, family and caregiver education. A course fee will apply. (Prerequisite: OTA 140; Co-requisites: OTA 211 and OTA 221)

Fieldwork Level II—A (0-12.5)

(Students will complete level II fieldwork for 35-40 hours a week for eight weeks. This is required in a supervised fieldwork experience applying occupational theory, skills, and concepts at an off-campus designated site. Students will use the occupational therapy process while developing and practicing the skills of an entry-level Occupational Therapy Assistant. Students are assigned to a particular setting working with individuals with developmental, physical, or emotional challenges. Students are responsible for their own transportation, room and board. A course fee will apply. (Prerequisite: OTA 221)

OTA 245 Occupational Therapy Management (2-0) 2 Credits

This course will cover the roles and responsibilities in the administration of occupational therapy services. Topics include assistance with the management of departmental operations; the role of the Occupational Therapy Assistant (OTA) in OT, program evaluation; supervisory requirements; reimbursement issues; personnel training and supervision; continued learning; and job search skills. (Prerequisite: OTA 221, Co-requisite: OTA 240 and OTA 250)

OTA 250 Fieldwork Level II - B (0-12.5) 5 Credits

Students will complete level II fieldwork for 35-40 hours a week for eight weeks. This is required in a supervised fieldwork experience applying occupational theory, skills, and concepts at an off-campus designated site. Students will use the occupational therapy process while developing and practicing the skills of an entry-level Occupational Therapy Assistant. Students are assigned to a particular setting working with individuals with developmental, physical, or emotional challenges. This course is designed to provide the student the opportunity to apply learned theory, skills, and knowledge in a second setting, therefore, gaining a deeper and broader perspective of the field of Occupational Therapy. A course fee will apply. (Prerequisite: OTA 240)

PHARMACY TECHNICIAN

PHAR 101 Pharmacy Techniques I (3-0)

3 Credits

S

Upon completion of this course the student will possess the minimum knowledge base or competency to assist pharmacists in the preparation of prescriptions. A course fee will apply. (Prerequisites: HS Diploma or high school equivalency. Eligible to register to take a National certification exam)

PHAR 102 Pharmacy Techniques II (3-0)

Upon completion of this course the student will possess the knowledge base or competency to assist pharmacists in the preparation of prescriptions. The student will meet all the requirements to take a National certification exam. A course fee will apply. (Prerequisites: PHAR 101)

PHAR 110 Pharmacology Concepts (3-0) 3 Credits

Upon completion of this course the student will possess the knowledge base of competency to dispense medications. Ethical and legal concepts will be introduced. A course fee will apply.

PHAR 150 Pharmacy Tech Internship (1-4) 3 Credits

Supervised work experience allows the student to apply skills in an actual pharmacy situation. Students will be required to gain experience in the area in which they are seeking a certificate. Students will complete coursework and 56 hours of supervised work

experiences during the semester. A course fee will apply. (Corequisite: PHAR 102)

PHILOSOPHY

PHIL 101 F,S

Introduction to Western Philosophy (3-0) 3 Credits

A reading prerequisite is in recognition that good reading skills are necessary for this course. The course introduces students to the philosophical questions posed by western thinkers and the impact of these ideas on the wider culture and history, and will include readings taken from ancient Greeks to modern philosophers. The course partially fulfills requirements for humanities general education. (Prerequisite: Reading at least college level)

PHIL 121 F,S World Religions (3-0) 3 Credits

Students survey and compare the great world religions emphasizing concepts of God, creation, humanity, scripture, ethics and salvation. Emphasis is placed on the relationship between religious beliefs and other elements of society and culture. This rational and historical analysis concentrates on Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shinto, Zoroastrianism, Judaism, Christianity, Islam, and Baha'i. It also includes an introduction to some basic indigenous religions of Native America and Africa. This course partially fulfills requirements for humanities in general education.

PHIL 201 F,S Logic (3-0) 3 Credits

The methods and principles used in distinguishing sound from faulty reasoning, both deductive and inductive, are examined. Students successfully completing this course practically fulfill Humanities general education requirements.

PHIL 202 F,S Ethics (3-0)

PHIL 202 surveys various ethical systems and explores personal moral attitudes and the ethical struggles in modern society. Students successfully completing this course partially fulfill Humanities general education requirements. (Prerequisite: Reading at least at college level)

PHYSICAL EDUCATION

The following are physical education activity courses.

PE 103 **Upon Request** Bowling (0-2) 1 Credit

A brief history of bowling is followed by fundamentals of scoring. Instruction will be given in correct grips, stance, footwork and basic approach and release. (Additional bowling alley fee assessed)

Upon Request Rhythmic Aerobics (0-2) 1 Credit

This general fitness class is designed to guide each student toward physical fitness and weight control through group exercise to music. (Note: prerequisite for PE 204 is PE 104; these courses should be taken in sequence) (Course location varies)

PE 105 Weight Training (0-2) 1 Credit

This course is designed to assist participating students in maintaining and improving their general physical conditioning. emphasizes cardiovascular and muscular endurance, strength and flexibility through conditioning exercises and body mechanics. Daily activities include jogging and weight lifting to present a well-rounded program to students.

PE 110 **Upon Request** Golf (0-2) 1 Credit

A brief history is followed by practice in the fundamental skills of golf. Scoring, strategy and rules are also taught. College facilities and the local golf course are utilized. (Additional golf fee may be assessed)

PE 111

Upon Request Lifetime Activities (0-2)

This course acquaints students with a wide variety of activities that can be enjoyed throughout their lifetime. The following individual and group lifetime activities are covered: walking, bowling, badminton, volleyball, whiffle ball, table tennis, pickle ball and Frisbee. A course fee may apply.

PE 113 Lifetime Fitness and Wellness (1-1)

F.S 2 Credits

1 Credit

This course provides contemporary information about the beneficial effects of a positive healthy lifestyle and how to implement and live such a lifestyle through lecture, lab work, and weight workouts. General topics covered include cardiovascular fitness, posture, flexibility, agility, muscle tone, strength, endurance, diet and exercise. A course fee may apply.

PE 114 Badminton and Table Tennis (0-2) **Upon Request** 1 Credit

A brief history of each activity is followed by practice in the fundamental skills of badminton and table tennis. Scoring, strategy and rules are also taught.

PE 117 Walking for Fitness (0-2) **Upon Request** 1 Credit

Walking for Fitness is a low impact, outdoor activity class. It is designed to guide students toward better physical fitness through structured walking activities. The course will cover health-related topics such as heart rate (resting and target), weight management, pedometer usage, flexibility, caloric requirements and expenditures, body composition, stretching, and basic nutrition. (Course location varies)

PE 121/122

Strength Training for Athletes (0-2)

1 Credit

This course is designed to assist participating varsity athletes in maintaining and improving their general physical conditioning. The class emphasizes muscular strength and endurance training through conditioning exercises and body mechanics. (Prerequisite: Must be a freshman varsity athlete at Crowder)

PE 144

F.S

F,S

Introduction to Tae Kwon Do (0-2)

1 Credit

This course is the introduction to the history, discipline, skills and training involved in the study and practice of Tae Kwon Do.

Beginning Tae Kwon Do (0-2)

1 Credit

This course is the continuation of the series of courses in Tae Kwon Do and provides the opportunity for continued growth and advancement in the art. (Prerequisite: PE 144)

Upon Request

Advanced Rhythmic Aerobics (0-2)

1 Credit

This general fitness class is designed to guide each student toward physical fitness and weight control through group exercise to music. (Prerequisite: PE 104. PE 104 and 204 should be taken in sequence) (Course location varies)

PE 205

1 Credit

Advanced Weight Training (0-2)

This course is designed to assist participating students in maintaining and improving their general physical conditioning. The class emphasizes cardiovascular and muscular endurance, strength and flexibility through conditioning exercises and body mechanics. Daily activities include jogging and weight lifting to present a well-rounded program to students. (Prerequisite: PE 105)

PE 221/222

F. S 1 Credits

Strength Training for Athletes (1-0)

This course is designed to assist participating varsity athletes in maintaining and improving their general physical conditioning. The class emphasizes muscular strength and endurance training through conditioning exercises and body mechanics. (Prerequisite: Must be on a sophomore varsity athlete at Crowder)

PF 244

Intermediate Tae Kwon Do (0-2)

FS 1 Credit

This course is the continuation of the series of courses in Tae Kwon Do and provides the opportunity for continued growth and advancement in the art. (Prerequisite: PE 145)

PE 245 Advanced Tae Kwon Do (0-2)

F,S 1 Credit

This course is the continuation of the series of courses in Tae Kwon Do and provides the opportunity for continued growth and advancement in the art. (Prerequisite: PE 244)

The following are physical education lecture courses.

PE 115

First Aid (2-0) 2 Credits

This course will teach students how to give immediate care to a person who has been injured or suddenly taken ill. The course includes self-help and home care if medical assistance is unavailable or is delayed.

PE 120

F

Introduction to Health, Physical Education & Recreation 2 Credits (2-0)

This course is to acquaint students with the principles, objectives, methods, subject matter and career materials in Physical Education.

PE 125

S

Athletic Training (2-0)

2 Credits

Instruction is given in the prevention and care of athletic injuries, including taping, exercise and other training techniques.

PE 142

F,S

Personal and Community Health (3-0)

3 Credits

This course acquaints students with a variety of topics including emotional health, drugs and drug abuse, human sexuality, the care and prevention of common diseases, body systems, analysis of health problems and proper nutrition.

PE 150

F

Psychological Aspects of Physical Activity and Sports

This course will teach students the value of physical activities and sports in society through the development of the following personal characteristics: learning how to participate in sports anxiety-free, learning how to reach peak performance, learning how to maintain consistent quality performance, and learning how to win and lose.

PE 160

Upon Request 2 Credits

Coaching Methods I (Basketball) (2-0)

The various facets of organizing and managing a school basketball program are taught. Areas of concentration involve systems of offense and defense, special game situations, organizing practices and teaching fundamental skills of the game.

PE 206, 207 Physical Education for Athletes (Men)

F,S 1 Credit

This class is designed for varsity participation and preparation in soccer. This class is for sophomores only. PE 206 must be taken in the fall semester followed by PE 207 in the spring semester.

PE 260

Coaching Methods II (Baseball/Softball) (2-0)

The study of school baseball/softball program organization and management through basic concepts of individual and team offense and defense are taught. Game situations, organization, practices, and fundamental skills are covered.

Topics in Physical Education

This is a variable content course with topics that can change from semester to semester. Topics will be chosen each semester depending upon student requests and needs, and will be published in the schedule of classes. Topics may include but are not limited to: modern dance, swimming, outdoor education, basketball, tennis, racquetball, soccer, soft aerobics, etc. The course may be repeated if the topic is different.

PHYSICS AND PHYSICAL SCIENCE

PHYS 101

Survey of Physical Science (3-2)

F.S.SU 4 Credits

The basic principles and interrelations between physics, chemistry, earth science and astronomy are examined in this class. The course satisfies part of the general education science requirement for the Associate in Arts degree.

PHYS 105 Descriptive Astronomy

F,S 3 Credits

This is an introductory lecture course in astronomy. Topics include the history of Astronomy, the Moon, the Sun, the Solar System, Gravity and planetary motion, stellar evolution, neutron stars, black holes, galaxies and the evolution of the Universe. The course satisfies part of the general education science requirements for the Associate in Arts degree.

PHYS 190 General Physics I (4-2)

5 Credits

General Physics I is a calculus level course that examines the and applications of classical mechanics thermodynamics. This class is intended for students majoring in engineering, the physical sciences, mathematics and computer science. (Prerequisites: MATH 150) (Co-requisite: MATH 160 or one-semester MATH 150/160 sequence concurrently with PHYS

PHYS 210

General Physics II (4-2)

5 Credits

General Physics II continues study initiated in Physics 190. The topics covered are electricity and magnetism, optics and elements of modern physics. This course is intended for students majoring in engineering, the physical sciences, mathematics and computer science. (Prerequisite: PHYS 190, MATH 150 AND MATH 160)

PHYS 250

3 Credits

Statics (3-0)

Statics is a course for engineering majors that examines two and three-dimensional mechanical systems under equilibrium conditions. (Prerequisites: PHYS 190, MATH 150, and MATH 160)

PHYS 271, 272, 273

Topics in Physics

1-3 Credits

A variable content course with areas of study that reflects current issues. Topics are identified in the course schedule and prerequisites are spelled out in the syllabus. (Prerequisite: Permission of department)

POLITICAL SCIENCE

PLSC 103 National, State, Local Government (3-0)

F.S.SU

PLSC 103 introduces the basic principles and structures of the American national government, and state and local government organizations and functions. Emphasis is placed on constitutional development and interpretation; the place of government in the social process; and the function of the executive, legislative, and judicial branches. Students successfully completing this course fulfill the Civics requirement in constitutional study within the Social and Behavioral Science general education requirements. (Prerequisite: Reading at least at college level)

PLSC 104

National, State, Local Government Honors (3-0)

This is a political science class designed for honors students. The course content is the same as Political Science 103 except this class is writing intensive and, when appropriate, more varied instructional techniques will be used in this class. Students successfully completing this course fulfill the Civics requirement in constitutional study within the Social and Behavioral Science general education requirements. (Prerequisite: admission to Honors Program or consent of the instructor and reading at the college level)

PLSC 111, 112, 113

Upon Request 1-3 Credits

Topics in Political Science (1-3)

These courses provide an opportunity to study selected Political Science topics not covered in the Political Science curriculum or to study in greater depth, topics addressed in introductory Political Science courses. The content of these courses may vary from semester to semester and some may require a prerequisite. Check with the Division Chair, instructor or advisor regarding prerequisites for a specific topics course. These courses will transfer but may or may not meet specific degree or program requirements at other institutions (Prerequisite: Reading at least at college level)

PRESCHOOL TEACHER/ **PARAPROFESSIONAL**

ECD 101

F

Foundations and Theories in Early Childhood Education 3 Credits

This course is an introduction to early childhood education including a historical perspective of early childhood education, relating to parents and other professionals in the community, and advocating or children and families. (Prerequisite: Reading at least at college level)

Health, Safety, & Nutrition of Young Children (3-0) 3 Credits

This course covers a review of health/safety practices recommended for childcare and includes information on common diseases and health problems. Guidelines and information nutrition and developmentally appropriate activities are also studied in the course. (Prerequisite: Reading at least at college level. Successfully complete first aid and CPR certification for adult, child and infant by the end of the semester)

ECD 201 s

Curriculum for Early Childhood Programs (3-0)

The goals of this course are to introduce students to the appreciation and assessment of young children's thinking, to provide opportunities to develop competencies in promoting the learning and overall development of young children individually as well as in groups, and to increase levels of professionalism as educators. (Prerequisite: Reading at least at college level; ECD 101 and ECD 103 or current CDA)

ECD 203 Early Childhood Practicum (2-0)

By actively participating in the care and education of young children in an early childhood program, students will become more proficient in administrative skills, increase their awareness of contemporary issues in early childhood, and will demonstrate a high level of competence as a head teacher. Students will serve a total of 45 hours in field experience and 16 hours in seminar during the semester. (Prerequisite: Reading at least at college level and provide a current copy of the criminal background check. enrollment in ECD 201 is expected)

PSYCHOLOGY

PSYC 101

F,S,SU 3 Credits

General Psychology (3-0)

An introduction to the scientific study of human behavior including motivation, perception, learning, emotions, intelligence and the physiological basis of behavior is presented. Successful completion of this course partially fulfills Social and Behavioral Science general education requirements.

PSYC 110 F Psychology of Personal Adjustment (3-0) 3 Credits

This study of the development of the self and problems of adjustment emphasizes effective methods of coping with stress and improving interpersonal relationships through discussion, research and group dynamics. Successful completion of this course partially fulfills Social and Behavioral Science general education requirements. (Prerequisite: PSYC 101, Reading at least at college level)

PSYC 203 F,S Autism Spectrum Disorders (3-0) 3 Credits

This course focuses on a broad overview of autism, Asperger's syndrome and related autism spectrum disorders with particular emphasis on characteristics, definition, educational aspects, and contemporary issues in the field of special education. It is designed to provide students with a firm grounding in the foundations of teaching persons with autism and expose them to recent developments in the field. Content also includes methods to enhance classroom functioning and skill acquisition.

PSYC 204 F
Applied Behavior Analysis for Educators (3-0) 3 Credits

This course focuses on identifying, recording, evaluating, and changing social and academic behaviors of special and diverse populations. Theories of classroom management will be explored and various approaches to management including use of technological advances will be addressed. Developing classroom and individual behavior management plans will be emphasized.

PSYC 211 F,S Lifespan Development (3-0) 3 Credits

This is a study of human development across the lifespan. From conception to death, this course will examine physical, cognitive, and socioemotional changes along developmental milestones. Successful completion of this course partially fulfills Social and Behavioral Science general education requirements. (Prerequisite: PSYC 101)

PSYC 290 S
Clinical I-Supervised Field Experience (3-0) 3 Credits

This course will provide students the experience of practicing applied behavior analysis methodologies. Students will learn discrete trial teaching, natural environment teaching, incidental teaching, and how to conduct functional behavior assessments. Students will develop and implement behavior intervention plans, monitoring behavior intervention plans and make informed decisions when working with a child with autism or has behavioral issues. This course requires 80 hours of on-site work and a portfolio is required to successfully complete this course.

Educational Psychology

(See EDUC 231)

SOCIAL WORK

SWK 200 Introduction to Social Work (3-0)

3 Credits

Social work methods and processes, case work, group work, community organization, research and social action are examined. Theory and application of social work as a way of understanding and helping people are also discussed. (Prerequisite: Reading at least at college level)

SWK 221 S
Basic Helping Skills (3-0) 3 Credits

This course combines the theories of social work practice with social work practice skills using common models and theoretical frameworks. It presents and provides structured practice of fundamental interpersonal skills required for effective social work practice. This class teaches interviewing skills and critical thinking about the interview processes beginning with intake and ending with termination and evaluation. The models, theories, and processes learned in this course serve as the foundation for generalist practice

with individuals, families, groups, and communities. Students will also be required to volunteer at different service agencies for a specific amount of service hours to complete the course.

SWK 230 F
Substance Abuse Interventions (3-0) 3 Credits

The objective of the Substance Abuse Interventions class is to introduce students to the general field and study of chemical abuse and dependency. Areas of study broadly include definitions, prevalence, etiology, policies, effects on family and society, and prevention and treatment approaches. SWK 230 will examine each of the major topic areas, theories and major findings that comprise this area of human behavior.

SOCIOLOGY

SOC 101

F,S,SU

General Sociology (3-0)3 Credits
This introduction analyzes groups, institutions and individual behavior

in group environments. Successful completion of this course partially fulfills Social and Behavioral Science general education requirements.

SPEECH

COMM 104 Fundamentals of Speech (3-0) F,S,SU 3 Credits

Fundamentals of Speech is an introduction to the fundamentals of effective public speaking and listening. The course is designed to develop confidence in self-expression and interpersonal communications. Communications 104 includes preparing, organizing and delivering oral messages within a variety of real life situations of communication. Audience analysis, the listening process and clarity of expression are emphasized. (Prerequisite: ELI 35, if required by Crowder College's standard Admission testing procedures)

SPCH 121, 122, 123, 124

Competitive Speech

1 Credit

Designed for students interested in improving communicative and public speaking skills through the practical application of competitive speech and debate. This class covers speech research, preparation, outlining, and delivery. Provides students with practical experience in both practice rounds and intercollegiate competitions.

SPCH 193

Topics (3-0) 3 Credits
Variable content, appropriate to student needs, is included in this

Variable content, appropriate to student needs, is included in this elective course. Lectures and/or studio projects in the fields of speech and debate may be used. (Consult the registration schedule for specific topics when class is offered)

THEATRE

Note: Only four hours of Theatre Practicum (Performance or Technical, not four hours of each) may be applied toward graduation.

TA 105
Acting I (3-0) 3 Credit

This course is designed to free the body and voice as well as the imagination and creativity of the student. This course's purpose is to allow the student to become free from inhibitions when performing on stage. A series of exercises will be utilized to accomplish these goals as well as monologue and scene work to polish the skills of the actor.

TA 106, 107, 206, 207

F,S,SU 1 Credit

Theatre Practicum, Performance (1-0)

Students cast in departmental production(s) may receive credit for their participation as actors. A minimum of 30 hours in rehearsal, performance and strike is required. This course may be repeated for credit with four hours to be applied toward graduation. (Prerequisite: permission of instructor)

TA 108 Playwriting (3-0)

This course is designed to introduce students to the fundamentals of script writing for stage and screen. Participants in this class will learn to properly compose and format scripts, while also exploring the freedom of creative expression through writing. Throughout the semester we will explore the three act structure, read various literary works and apply technique through various written and performance projects.

TA 112 Directing I (3-0)

3 Credits

This course is designed to introduce students to the fundamentals of directing. Participants in this class will learn how to execute the art and responsibilities of directing; from casting to strike. This course will provide students with a hands-on approach to directing, while also encouraging them to engage in play analysis, critical thinking and creative application.

TA 115 Stagecraft (3-0)

3 Credits

Students study backstage work through an examination of the materials, techniques and conventions of stage construction and show production. The course will introduce the practical aspects of properties, scenery, painting, lighting, sound, electronics, and drafting. Thirty (30) hours of practical experience are required during the semester.

TA 116, 117, 216, 217

F.S.SU

Theatre Practicum, Technical (0-3)

1 Credit Students may receive credit for their participation in technical aspects of departmental productions when not currently participating for credit in another theatre course. A minimum of thirty (30) hours of theatre participation is required in lighting/sound, scenery construction, costumes, props, stage management, or any combination. This course may be repeated for credit for a maximum of four hours applied toward graduation. (Prerequisite: permission of instructor)

TA 125, 225 Summer Theatre (3-0)

SII 3 Credits

Students serve as active members of the Crowder Summer Theatre Company. They serve as actors, designers and technicians in each summer theatre production. Thirty (30) hours of practical experience are required during the semester.

TA 180

Stage Makeup (3-0)

3 Credits

Basic techniques in design and application of stage makeup are presented as well as proper care and sanitation of all materials. Students learn materials and methods as well as fundamental theory for the development of dramatic characters through stage makeup.

TA 205

F,S,SU

Introduction to Theatre (3-0)

Theatre organization, stage technique and representative plays from Greek to modern drama are introduced. Emphasis is placed on the theatre as a living art form. This course partially fulfills general education humanities requirements.

TA 208

3 Credits

Scenework (3-0)

This course is designed to free the body and voice as well as the imagination and creativity of the student. This course's purpose is to allow the student to become free from inhibitions both on stage and in life. A series of exercises will be utilized to accomplish these goals as well as monologue and scene work to polish the skills of the actor. (Prerequisite: TA 205 or Instructor approval)

TA 150, 151, 152, 250, 251, 252 Topics in Theatre (1-4)

SDL, Upon Request 1-4 Credits

A variable content course with topics that can change from semester to semester focusing on areas of theatre not offered in the general theatre curriculum. Topics are identified by title in the class schedule. This course may be repeated if the topic is different.

TRANSPORT TRAINING

Transport Training (13-0)

13 Credits

This course offers the student entry-level knowledge and skills necessary to operate a tractor-trailer vehicle safely, efficiently and The students' training will consist of various techniques of instruction including classroom training, driving on a controlled paved range, backing range, as well as highway and city driving. The tractor-trailers used in training students are comparable to what is used by the trucking industry today.

VETERINARY TECHNOLOGY

ANSC 180

Introduction to Veterinary Science (2-0)

2 Credits

This course will begin with a brief study of the professions of veterinary medicine. Basic cell structure, tissue types, and body systems will then be covered, with practical application to common animal diseases. Animal hospital procedures and animal handling will be introduced. This course will serve as preparation for those interested in working in veterinary medicine or having an interest in application to the Veterinary Technology program at Crowder College or to a college of veterinary medicine to pursue a doctorate degree. (Taking BIOL 101 or BIOL 110 prior to or at the same time as taking this course is recommended.)

Sanitation and Animal Care (2-0)

2 Credits

As an introduction to sanitation, disinfectants, sterilization, and zoonotic diseases and how they relate to public health, this course includes parasitology, cleaning and sterilization sanitation of equipment and facilities, and procedures in patient care. Antiinfective drugs are introduced. Material Safety Data Sheets and OSHA regulations are also discussed. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 120

Veterinary Hospital Technology I (1.5-3)

3 Credits

As an introduction to anesthetics and surgical assisting, the course includes surgical preparations, monitoring, and post- operative procedures, parenteral fluid administration and intravenous hookups. Drugs affecting the nervous and cardiovascular systems are discussed, along with the basics of pharmacology. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

3 Credits

Clinical Pathology Techniques I (1.5-3)

This course is an introduction to laboratory procedures including clinical chemistries, hematocrits, complete blood counts, differentials, and urinalysis. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 140

Companion Animal Technology (2-2)

In addition to instruction in restraint and handling of dogs, cats, this course also includes the study of common canine and feline diseases, small animal parasites, medical terminology, identification of breeds, discussion of commonly used medications, bathing and basic grooming techniques, blood collection, specimen collection, and common laboratory techniques. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 180

Anatomy and Physiology of Animals (2-4)

This course includes basic principles of anatomy using a systemic and comparative approach, as well as instruction in physiology as it relates to anatomy and applicable pathology. Instruction in anatomic landmarks, interrelationships, and terminology is essential to this course. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 220 Veterinary Hospital Technology II (1.5-3) 3 Credits

This course includes administration of anesthetics, surgical assisting and patient monitoring, bandaging, casting, blood transfusions, variations in surgical preparations, and postoperative care. Emergency treatments will be discussed in greater detail. Pharmacology of various classes of drugs will also be included. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 230 2 Credits

Laboratory Animal and Avian Technology (1-2) Students will study basic anatomy and diseases of laboratory animals and birds, as well as develop skills in handling, performing laboratory testing, and treatment of these species. Handling and diseases of some exotic/other species will be discussed. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 250 Clinical Pathology Techniques II (1.5-3) 3 Credits

This course includes the theory and performance in hematology, urinalysis, and cytology with the introduction to simple immunologic tests, blood coagulation tests and bone marrow evaluation. Collection and identification of fungal pathogens are performed. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 263 Large Animal Med/Surg (1.5-3) 3 Credits

This course emphasizes techniques necessary to assist the veterinarian in a large animal or mixed practice and in research facilities. Bovine, equine, porcine, ovine, and caprine medicine and management including restraint, blood collection, medicating, and nursing techniques are included. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 270 Board Examination Review (1-0) 1 Credit

Students will systematically review all course material covered in previous semesters to aid in preparation for the national and state board examinations, improving the understanding of all program materials. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 280 Radiology and Electronic Procedures (1-2) 2 Credits

This course is a study and practice in radiological techniques, radiographic exposure techniques, film processing, contrast radiography, as well as ultra sound technology. A course fee will apply. (Prerequisite: Admittance to the Veterinary Technology program)

VETC 284 SU Veterinary Technician Internship (0-4) 4 Credits

This course consists of 240 hours in which the student works for a professional veterinary institution. The student will apply his or her training in an occupational setting, applying previously learned skills and knowledge to the work place. Evaluation forms are completed by the cooperating establishment. This course is offered for P/F grade only. (Prerequisite: Admittance to the Veterinary Technology program)

Vet Tech Clinical Experience I (0-2.5) 1 Credit

This course consists of 40 hours in which the student works with a veterinarian in a clinical setting as a first or second year vet tech student. The student will apply previously learned skills and knowledge to the work place. At the end of the experience, the student will write a paper discussing the pros and cons of this experience. Evaluation forms will also be completed by the supervising veterinarian. This course is offered for a pass/fail grade

VETC 286 F.S Vet Tech Clinical Experience II (0-2.5) 1 Credit

This course consists of 40 hours in which the student works with a veterinarian in a clinical setting as a second year vet tech student. The student will apply previously learned skills and knowledge to the work place. At the end of the experience, the student will write a paper discussing the pros and cons of this experience. Evaluation forms will also be completed by the supervising veterinarian. This course is offered for a pass/fail grade only.

WELDING

WELD 113 Introduction to Welding (2-2)

F,S 3 Credits

This course is designed to introduce the student to the basic operation of Shielded Metal Arc Welding ("Stick" Welding), Gas Metal Arc Welding (formerly M.I.G. Welding), Gas Tungsten Arc Welding (formerly T.I.G. Welding) and Thermal Cutting. Fee for materials and supplies. A course fee will apply.

F **WELD 117** Welding Blueprint Reading (2-1) 2 Credits

This course is the basic blue printing interpretation including the principles of reading, engineering drawings, and symbol used to understand prints in sufficient detail to give students the working knowledge of the subject. Instruction is based on a combination of traditional lecture/classroom exercises coupled with hands-on shop activities. A course fee will apply.

WELD 124 Fabrication Methods I (2-1) 2 Credits

This course instructs students on fabrication techniques as they relate to product manufacturing, maintenance and repair. Students will learn how to use basic shop tools and shop equipment efficiently and safely. A course fee will apply.

WELD 135 Basic Metallurgy (2-1) 2 Credits

This course will study the basic fundamentals of metallurgy. We will discuss the behavior of metals and how they relate to the field of welding. Topics include identification, classification and properties of ferrous metals, nonferrous metals, alloys, heat treatment, destructive and non-destructive tests, cast iron and plastics. A course fee will apply.

WELD 140 2 Credits Fabrication Methods II (2-1)

This is an advanced course for students to learn fabrication techniques as they relate to product manufacturing, maintenance and repair. Students will learn how to use advanced shop tools and shop equipment efficiently and safely. Notes and handouts from instructor will be handed out along with production prints for making class projects. A course fee will apply. (Prerequisite: WELD 124)

WELD 145 F,S Gas Metal Arc Welding-GMAW (1-3) 3 Credits

This course is designed to provide the concepts, procedures, and operational hands-on practice necessary to perform gas metal arc welding (GMAW), formerly known as Metal Inert Gas (MIG) welding. Fee for materials and supplies. A course fee will apply. (Prerequisite: WELD 113 or Permission of Instructor)

F,S **WELD 150** Gas Tungsten Arc Welding-GTAW (1-3)

This course is designed to provide the concepts, procedures, and operational hands-on practice necessary to perform gas tungsten arc welding (GTAW), formerly known as Tungsten Inert Gas (TIG) welding. Fee for materials and supplies. A course fee will apply. (Prerequisite: WELD 113 or Permission of Instructor)

WELD 202

Welding Theory I (2-1)

2 Credits

This theory course introduces the processes of, Gas Tungsten ARC Welding (GTAW), Shielded Metal ARC Welding (SMAW), Gas Metal ARC Welding GMAW), and Oxy-Fuel Cutting (OFC). Safety for students such as Personal Protection Equipment (PPE) and safe welding practices in the welding shop emphasized. Welding and cutting equipment, selection of welding supplies and Materials that are used in industry are introduced. A course fee will apply. (Corequisites: WELD 153)

WELD 152 Welding Theory II (2-1)

2 Credits

This theory course focuses on advanced lessons in Gas Metal Arc Welding, Gas Tungsten Arc Welding, Shielded Metal Arc Welding, and Oxy-Fuel Cutting. Flux Core Arc Welding and Plasma Arc Cutting are also introduced. The course will also study welding symbols, drawings, nonferrous welding applications, welding codes, specifications and tests with special emphasis on The American Welding Society (AWS) welder qualifications. A course fee will apply. (Prerequisite: WELD 151; Co-requisites: WELD 154)

WELD 153 Fillet Plate Lab (0-10)

5 Credits

This course gives beginning instructions in laboratory safety, use of Personal Protection Equipment (PPE), with a strong emphasis on the safe handling of welding and cutting equipment. Basic hands-on instruction in Gas Tungsten Arc Welding (GTAW), Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Oxy-Fuel Cutting (OFC) on various thicknesses of metal, and the techniques used. Also covered are welding supplies and equipment maintenance. A course fee will apply. (Co-requisites: WELD 151)

WELD 154 Groove Plate Lab (0-10)

5 Credits

Instruction will consist of perfecting skilled welding on plate steel in all positions using Shield Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Flux-Core Arc Welding (FCAW) and Carbon Arc Cutting-Air (CAC-A). Students will practice and weld plates in accordance to The American Welding Society (AWS) certification guidelines. This course will also have planned industry Field trips, Welding Competitions State and local, and Career Fairs when scheduled. A course fee will apply. (Prerequisite: WELD 153; Co-requisites: WELD 152)

WELD 155 Shielded Metal Arc Welding-SMAW (1-3)

F.S

This course is designed to provide the concepts, procedures, and operational hands-on practice necessary to perform shielded metal arc welding (SMAW), formerly known as "Stick" welding or traditional ARC welding. Fee for materials and supplies. A course fee will apply. (Prerequisite: WELD 113 or Permission of Instructor)

WELD 197,198, 199, 297, 298, 299

Topics in Welding Technology (0-8 to 3-0) 1-3 Credits

This is a variable content course with areas of study that reflect current needs of individual students in the area of Welding Technology. Topics are identified in the course description. Fee for materials and supplies. A course fee may apply. (Prerequisite: Permission of instructor)

WELD 201

Welding Theory III (2-1)

This course will provide the student with technical understanding in advanced welding theory which includes the study of electricity for the different welding and cutting processes. It will provide the student with a theoretical understanding of welding and cutting processes when using mechanical and computer controlled (CNC) equipment. It will also provide the student with theory for writing Numerical Control (NC) programming. The course will also provide the student with theory on metallurgy pertaining to welding and cutting. A student portfolio will be designed. A course fee will apply. (Prerequisite: WELD 152; Co-requisites: WELD 211)

Welding Theory IV (2-0)

This course provides theory to develop welding skills necessary to make certified welds according to the American Welding Society (AWS), American Society of Mechanical Engineers (ASME), or American Petroleum Institute (API) Codes. Weld-ability of ferrous and non-ferrous metals, metal identification, nondestructive and destructive testing, industrial safety, and OSHA regulations will be covered. This course will also provide the student with a technical understanding of weld procedures and the advanced operation of welding equipment including robotic applications. The student will learn various advanced welding certification and inspection applications which include what it takes to become a Certified Welding Inspector and a CWI's inspection duties. A course fee will apply. (Prerequisites: WELD 201; Co-requisites: WELD 213/216)

WELD 211 Pipe Groove Lab (0-14)

S

7 Credits

This course provides the student an opportunity to learn various advanced welding applications which include Gas Metal Arc Welding (GMAW), and Shielded Metal Arc Welding (SMAW) and Gas Tungsten Arc Welding (GTAW). The student will also learn a technical understanding of machine control cutting and robotic operations which include Numerical Control programming and teach pendant control. This course will also provide the student with a technical understanding of tacking and welding techniques for completing projects to reflect industry standards. A course fee will apply. (Prerequisites: WELD 154; Corequisites: WELD 201)

WELD 213 Advanced Pipe Groove Lab (0-8)

4 Credits

This course provides the student an opportunity to learn various advanced welding applications which include Gas Metal Arc Welding-Pulse (GMAW-P), Flux Cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW) and Shielded Metal Arc Welding (SMAW). The student will also learn a technical understanding of advanced cutting operations including Numerical Control (NC) programming. student will also learn advanced CNC and robotic controls to correctly operate fabrication equipment. This course will also provide the student with a technical understanding of calculating material and use of proper procedures for the completion of projects manufactured in the lab. A course fee will apply. (Prerequisites: WELD 211; Corequisites: WELD 124 and WELD 140)

WELD 216 Pipe and Plate Fabrication Lab (0-8)

4 Credits

S

This course provides the student an opportunity to learn various advanced welding applications for pipe welding which include SMAW, GTAW and GMAW. The student will also learn codes and certifications from various national welding standards including an unlimited thickness certification. This course will also provide the student with a technical understanding of calculating material and use of proper procedures for the completion of pipe weldments. A course fee will apply. (Prerequisites: WELD 211; Co-requisites: WELD 202)

Advanced Manufacturing Technology: Programmable Logic Controller (PLC) Technician Certificate

Advanced Manufacturing Technology: Automation/Robotics Technician Certificate

Advanced Manufacturing Technology: Automation/Robotics Option AAS

The Advanced Manufacturing Technology program prepares students for employment in industries with automated manufacturing processes. The program is built around a set of core courses designed to give students the basic skill set required for this industry coupled with specialty courses allowing students to focus on various related options. This Program of Study addresses the Automation/Robotics Option.

The Automation/Robotics Technician certificate prepares students for employment in industries with automated robotic processes. Successful graduates will possess the ability to perform entry level maintenance and repairs to industrial automated equipment and robots.

This certificate prepares students to enter a career in industrial technology with a basic skill set that will provide entry level knowledge of basic electricity, motor controls, and programmable logic controllers (PLC). The PLC classes will provide general and advanced training in programmable logic controllers as they are used in industry to manage multiple automated processes.

Program of Study

PLC Certificate Courses 16 hours **AMT** 102 Introduction to Industrial Electricity (3) **AMT** 104* Electrical Motor Controls (3) **AMT** 111 Introduction to Industrial Safety (1) **AMT** 142* Manufacturing Mechanics (3) **AMT** 204* Programmable Logic Controllers I (3) **AMT** 206* Programmable Logic Controllers II (3) Auto/Robotics Certificate Courses 13 hours **AMT** 132 Industrial Hydraulics (3) 182* Introduction to Automated Robotics (3) **AMT AMT** 284* Automated Robotic Programming (3) **CNS** 101 Introduction to Electronics (3) COLL 101 College Orientation (1) Auto/Robotics Mathematics 3 hours 104* MATH (3)135* **MATH** (3)**Communications** 9 hours Written Communications (6 hours) **ENGL** 101* (3)102* **ENGL** (3)**ENGL** 203* (3)Oral Communications (3 hours) COMM 104* (3)**Civics** 3 hours HIST 106*, 107* (3) **PLSC** 103* (3) Support Courses 10-11 hours **BSAD** 103 (2)**BSAD** 115 (3) - OR - BSAD 125 **DRFT** 101 (3)**WELD** 113 (3) - OR - WELD 151* 3 hours Advanced Manufacturing Courses **AMT** 290* Manufacturing Internship (3) Automation/Robotics Courses 3 hours **CNS** 115 Cisco Networking I (3)

Suggested Plan of Study

FIRST YEAR

	Hours
AMT 102 Intro to Industrial Electricity	3
AMT 104 Electrical Motor Control	3
AMT 111 Introduction to Industrial Safety AMT 142 Manufacturing Mechanics	1
AMT 142 Manufacturing Mechanics	3
AMT 204 Programmable Logic Controllers I	3
AMT 206 Programmable Logic Controllers II COLL 101 College Orientation	3
	1
TOTAL	17
Spring Semester	Hours
AMT 132 Industrial Hydraulics	3
AMT 182 Intro to Autómated Robotics AMT 284 Automated Robotic Programming	3
AMT 284 Automated Robotic Programming	
CNS 101 Intro to Electronics	3 3
Approved Mathematics Course	3
TOTAL	15
Graduate with PLC Certificate	13
Graduate with Automation/Robotics Certificate	
SECOND YEAR	
Fall Semester	Hours
BSAD 115 Comp Apps – OR – BSAD 125	3
DOAD 113 COMP Apps - ON - DOAD 123	3
CNS 115 Cisco Networking I	3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech	3 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding	3 3 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course	3 3 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding	3 3 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL	3 3 3 15
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester	3 3 3 15 Hours
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship	3 3 3 15 Hours
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development	3 3 3 15 Hours
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing	3 3 3 15 Hours
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development	3 3 3 15 Hours 3 2 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing Approved Civics Course Approved Written Communications Course TOTAL	3 3 3 15 Hours 3 2 3 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing Approved Civics Course Approved Written Communications Course	3 3 3 15 Hours 3 2 3 3 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing Approved Civics Course Approved Written Communications Course TOTAL	3 3 3 15 Hours 3 2 3 3 3
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing Approved Civics Course Approved Written Communications Course TOTAL Graduate with AAS	3 3 3 15 Hours 3 2 3 3 3 14
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing Approved Civics Course Approved Written Communications Course TOTAL Graduate with AAS Total PLC CERTIFICATE Hours Required Additional Hours Needed for AAS Total A/R CERTIFICATE Hours Required	3 3 3 15 Hours 3 2 3 3 14
CNS 115 Cisco Networking I COMM 104 Fundamentals of Speech WELD 113 Introduction to Welding Approved Written Communications Course TOTAL Spring Semester AMT 290 AMT Internship BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing Approved Civics Course Approved Written Communications Course TOTAL Graduate with AAS Total PLC CERTIFICATE Hours Required Additional Hours Needed for AAS	3 3 3 15 Hours 3 2 3 3 3 14

Courses for Certificate	
Additional Courses for AAS Degree	

Students must earn	16 hours for this certificate.	Done	Curr	To do		
Major Courses	16 hours				•	
AMT	102 Introduction to Industrial ⊟ectricity (3)					
AMT	104 Electrical Motor Controls* (3)					
AMT	111 Introduction to Industrial Safety (1)					
AMT	142 Manufacturing Mechanics (3)					
AMT	204 Programmable Controllers I* (3)					
AMT	206 Programmable Controllers II* (3)					

CERTIFICATE
Automation/Robotics Technician

Students must complete 28 hours for the Automation/Robotics Technician certificate.

		Done	Curr	To do
Orientation	1 hour			
COLL	101 College Orientation			
Mathematics	3 hours			
MATH	104 Technical Mathematics* (3)			
MATH	135 Algebra for Calculus* (3)			
Major courses	24 hours			
AMT	102 Intro to Industrial Electricity (3)			
AMT	104 Electrical Motor Controls* (3)			
AMT	132 Industrial Hydraulics (3)			
AMT	182 Intro to Automated Robotics* (3)			
AMT	204 Programmable Controllers* (3)			
AMT	206 Programmable Controllers II* (3)			
AMT	284 Automated Robotic Programming* (3)			
CNS	101 Introduction to Electronics (3)			



ASSOCIATE OF APPLIED SCIENCE DEGREE Advanced Manufacturing Technology: Automation/Robotics Option

			Done	Curr	To do	,		Done	Curr	Тос
Orientati	ion	1 hc	our							
	COLL	101								
Commu	nications	9 hou	ırs					T		
		Communications (6 hours)								
	ENGL	101*				ENGL	203*			
	ENGL	102*, 104*								
		mmunications (3 hours)								
	COMM	104*								_
Mathema		3 hou	ırs							
	MATH	135*			<u> </u>	MATH	104*			L
Civics		3 hou	ırs					Т		П
	HIST	106*				PLSC	103*, 104*			
	HIST	107*								L
Advance	ed Manufa	acturing Core 19 hours			1			T		Т
	AMT	102 Intro to Industrial Electricity* (3))							
	AMT	104 Electrical Motor Controls* (3)				AMT	142 Mech Power Transmition* (3)			
	AMT	111 Intro to Industrial Safety (1)				AMT	204 Programmable Controllers* (3)			
	AMT	132 Industrial Hydraulics* (3)				AMT	290 Manufacturing Internship* (3)			<u> </u>
Support	Courses	10-11 hou	ırs					Т		П
• •	BSAD	103 Professional Development (2)								
	BSAD	115 Computer Concepts (3)				OR	BSAD 125 Computer Apps (3)			
	DRFT	101 Intro to Engineering Drwg (3)								
	WELD	113 Intro to Welding* (3)				OR	WELD 151 Welding Theory I* (2)			L
Automat	tion/Robo	otics 15 hours			Ī			Ī		Г
	AMT	182 Intro to Automated Robotics* (3	3)							
	AMT	206 Programmable Controllers II* (3)							
	AMT	284 Auto Robotic Programming* (3))							
	CNS	101 Introduction to Electronics (3)								
	CNS	115 Cisco Networking I (3)								
	*Prereq	uisite course(s) or minimum test score	es required. S	See cat	talog co	ourse de	escriptions for details.			

CERTIFICATE TO AAS

Advanced Manufacturing Technology: Industrial Maintenance Technician Certificate Advanced Manufacturing Technology: Manufacturing Maintenance Option AAS

The Advanced Manufacturing Technology program prepares students for employment in industries with automated manufacturing processes. The program is built around a set of core courses designed to give students the basic skill set required for this industry coupled with specialty courses allowing students to focus on various related options. This Program of Study addresses the Manufacturing Maintenance Option.

This certificate prepares students to enter a career in industrial maintenance with a skill set that will provide entry level knowledge of basic construction, welding, print reading, and industrial electricity. The electrical courses will include the use of electrical testing devices, troubleshooting techniques, and programmable logic controllers.

Program of Study

Certificate Technical Courses 11 hours 102 Introduction to Industrial Electricity (3) **AMT** 104* Electrical Motor Control (3) **AMT** 111 Introduction to Industrial Safety (1) **AMT** 204* Programmable Logic Controllers I (3) COLL 101 College Orientation (1) Certificate Support Courses 8-9 hours **BSAD** 115 Computer Concepts (3) - OR - BSAD 125 DRFT Introduction to Engineering Drawing (3) Introduction to Welding (3) - OR - WELD 151* WELD 113 Approved Certificate Electives 6 hours Certificate Electives Required for AAS (15 for AAS) **AMT** 122 Basic Machining (Manual) (3) [Required for AAS] AMT 132* Industrial Hydraulics (3) [Required for AAS] **AMT** 142* Mech Power Trans (3) [Required for AAS] **CONS** 131 Plumbing (3) [Required for AAS] CONS 155* Basic HVAC (3) [Required for AAS] Certificate Electives that are AAS Electives AMT 206* Programmable Logic Controllers II (3) **WELD** 145* GMAW Welding (3) - OR - WELD 152* WELD 150* GTAW Welding (3) - OR - WELD 153* WELD 155* SMAW Welding (3) - OR - WELD 154* Communications 9 hours Written Communications (6 hours) **ENGL** 101* (3) ENGL 102* (3) **ENGL** 203* (3) Oral Communications (3 hours) COMM 104* (3) Mathematics 3 hours MATH 104* (3) **MATH** 135* (3) Civics 3 hours **PLSC** 103* (3) HIST 106*. 107* (3) Support Courses 2 hours BSAD 103 Advanced Manufacturing Courses 3 hours 290* Manufacturing Internship (3) Manufacturing Maintenance Courses 6 hours See additional elective options in certificate electives **AMT** 162* Industrial Process Control I (3) DEPT XXX Any Technology or Business Div Course (3)

Suggested Plan of Study

	Juggestea i laii oi otaay	
AMT 104 AMT 111 AMT 142 AMT 204 AMT 206	Intro to Industrial Electricity Electrical Motor Control Intro to Industrial Safety Manufacturing Mechanics Programmable Logic Controllers Programmable Logic Controllers II College Orientation	Hours 3 3 1 3 3 1 3 3 1
	TOTAL	17
BSAD 115 CNS 101 DRFT 101 WELD 113	ster Basic Machining (Manual) Comp Concepts – OR – BSAD 125 Introduction to Electronics Intro to Engineering Drawing Introduction to Welding TOTAL h Industrial Maintenance Tech Certi	Hours 3 3 3 3 15 ficate
	0500ND V54D	
COMM 104 CONS 131 ENGL 101	SECOND YEAR Industrial Hydraulics Fundamentals of Speech Plumbing (Fall only) English Composition Algebra for Calculus TOTAL	Hours 3 3 3 3 15
CNS 105 CNS 106 CONS 155 ENGL 102 HIST 106	AMT Internship Technical Career Development Technical Career Development II Basic HVAC (Heating, Vent, AC) English Composition II American History or PLSC 103 TOTAL AMT: Manufacturing Maintenance	Hours 3 1 1 3 3 3 14 AAS
Total (Add	CERTIFICATE Hours Required litional Hours Needed for AAS Total AAS Hours Required	32 29 61

Courses for Certificate	
Additional Courses for AAS Degree	

CROWD	ER	CER	TIF	ICA	ΙTΕ					
COLLEC	GE	Industrial Mair	nter	nan	ce 1	Гесһ	nician			
	Stude	ents must complete 26 hours for tthis certification	te.							
			Done	Curr	To de	0		Done	Curr	To d
Orientation		1 hour								
COL	LL	101 College Orientation								
Major Course	es	10 hours				Ī				
АМ	Т	102 Introduction to Industrial Electricity (3)				AMT	111 Intro to Indust Safety (1)			
АМ	Т	104 Electrical Motor Controls* (3)				AMT	204 Prgrmble Controllers I* (3)			
Support Cour	rses	9 hours						T	1	
BSA	٩D	115 Computer Concepts (3) - OR -				BSAD	125 Computer Apps (3)			
DRF	-Т	101 Introduction to Engineering Drawing (3)								
WE	LD	113 Introduction to Welding (3) - OR -				WELD	151 Welding Theory I* (2)			
Approved Ele	ectives	6 hours						Т		
АМ	Т	122 Basic Machining (Manual) (3)								
АМ	Т	132 Industrial Hydraulics* (3)								
АМ	Т	142 Mechanical Pow er Transmission* (3)								
АМ	Т	206 Programmable Controllers II* (3)								
CON	NS	131 Plumbing (3)								
CON	NS	155 Basic HVAC* (3)								
WE	LD	145 GMAW Welding* (3)				OR	WELD 152* (2)			
WE	LD	150 GTAW Welding* (3)				OR	WELD 153* (5)			
WE	LD	155 SMAW Welding* (3)				OR	WELD 154* (5)			

ASSOCIATE OF APPLIED SCIENCE DEGREE

CROWDER COLLEGE

Advanced Manufacturing: Manufacturing Maintenance Option

Orientation			Advanced Manarate	_		To do	turing Maintenance Option	Done	Curr	To do
Communications	Orientat	tion	1 hour		<u> </u>					
Written Communications (6 hours)		COLL	101	<u> </u>						
ENGL 101* ENGL 203* Mathematics	Commu	nication	s 9 hours					Т		
ENGL 102*, 104* ENGL 203* Mathematics		Written	Communications (6 hours)				Oral Communications (3 hours)			
## Mathematics		ENGL	101*				COMM 104*			
Mathematics 3 hours MATH 135* MATH 104* Civics 3 hours PLSC 103*, 104* HIST 106* PLSC 103*, 104* Advanced Manufacturing Core 19 hours AMT 102 Intro to Industrial Electricity* (3) AMT 142 Manufacturing Mechanics* (3) AMT 290 Programmable Controllers* (3) AMT 290 Manufacturing Internship* (3) AMT 290 Manufacturing Internship* (3) OR BSAD 125 BSAD 115 Computer Concepts (3) OR BSAD 125 DRFT 101 Intro to Engineering Drwg (3) OR WELD 151 Welding Theory I* (2) Maintenance Manufacturing Courses (9 hours) AMT 122 Basic Machining* (3) CONS 131 Plumbing (3) CONS 155 Basic HVAC* (3) CONS 150 Basic HVAC* (3) CONS 150 Basic HVAC* (3) WELD 145* GMAW (3) – OR - WELD 152* WELD 145* GMAW (3) – OR - WELD 152* WELD 145* GMAW (3) – OR - WELD 152*										

CERTIFICATE

Advanced Manufacturing Technology: Machining Certificate

This certificate prepares students to enter a career in industrial maintenance with a skill set that will provide entry level knowledge of basic Machining including Manual and Computer Numeric Control (CNC) Programming. This program will cover the CNC process including operator panel, HMI panel, program structure, Milling, and Turning, Students will receive hands-on training on all related tools and equipment.

Program of Study

Suggested Plan of Study

AMT 122 Basic Machining (Manual) (3)	
AMT 123 Measurement and Print Reading (3)	
AMT 124 CNC Programming (3)	
AMT 125 CNC Milling (3)	
AMT 126 CNC Turning (3)	

	FIRST YEAR	
Fall Semester	r	Hours
AMT 122	Basic Machining (Manual)	3
AMT 123	Measurement and Print Reading	3
AMT 124	CNC Programming	3
AMT 125	CNC Milling	3
AMT 126	CNC Turning	3
	TOTAL	15
	Total Hours Required	15

CROWDER COLLEGE	(CER	TIF	ICA	TE			
COLLEGE	AN	1T:	Ma	chir	ning			
eneral Education Cor	e	Done	Curr	To do		Done	Curr	To do
Required Courses	15 hours							
AMT	122 Basic Machining (Manual) (3)							
AMT	123 Measurement & Print Read (3)							
AMT	124 CNC Programming (3)							
AMT	125 CNC Milling (3)							
AMT	126 CNC Turning (3)							

ASSOCIATE OF APPLIED SCIENCE DEGREE

Agri-Business Technology: Agronomy Option AAS

This program offers the graduate an Associate of Applied Science degree (AAS) which provides education for specific careers in agricultural business, agronomy. Graduates are prepared for the world of work upon successful completion of the program. While an AAS is not designed to transfer, it is possible to transfer to a four-year college if planned accordingly. Students planning to transfer should consult their faculty advisor before registering for classes to assure appropriate classes are selected.

Program of Study

Orientation				1 hour
AGRI	111			
Communica	tions			9 hours
Written	Communicatio	ns (6 ho	urs)	
ENGL	101*			
ENGL	102*			
ENGL	203*			
	mmunications	(3 hours	s)	
COMM	104*			
Mathematics			3 hours	
MATH	125*			
Civics				3 hours
HIST	106*, 107*			
PLSC	103*			
Agri-Business Core				27 – 29 hours
AGEC				
AGEC	213*			
AGEC	223			
AGMC				
AGRI				
AGRI		OR	AGRI	204
AGRN				
AGRN				
ANSC	114			
_	ss Agronomy			18 hours
AGRI	123		ANSC	
AGRI	223	OR	AGRI	
AGRN	223*		HORT	113
AGRN	243*			

Suggested Plan of Study

FIRST YEAR

111(01.12/11)	
Fall Semester AGEC 223 Ag Computer App AGRI 111 Ag Career Orientation AGRN 113 Crop Science MATH 125 Quantitative Reasoning Approved Written Communications Course TOTAL	Hours 3 1 3 3 3 13
Spring Semester AGRI 123 Ag Chemicals AGRN 243 Forage Crops (Even yrs) ANSC 114 Animal Science COMM 104 Fundamentals of Speech Approved Written Communications Course TOTAL	Hours 3 3 4 3 3 16
SECOND YEAR	
Fall Semester AGEC 213 Farm Business Mgmt (Fall Only) AGMC 205 Ag Mechanics AGRN 214 Fundamentals of Soil Science AGRN 223 Grain Crops (Even yrs) Approved Civics Course TOTAL	Hours 3 4 3 4 3 16
Spring Semester AGEC 123 Principles of Ag Econ AGRI 202 Ag Capstone AGRI 212 & AGRI 222 – OR – AGRI 204 AGRI 223 – OR – AGRI 190 ANSC 213 Feed & Nutrition HORT 113 Greenhouse Management TOTAL	Hours 3 2 4 3 3 3 18
TOTAL HOURS REQUIRED	61-63

^{*}Prerequisite requirement

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.



ASSOCIATE OF APPLIED SCIENCE DEGREE AGRI-BUSINESS TECHNOLOGY: Agronomy Option

			Done	Curr	To do		Done	Curr	To do
Orientat	tion	1 hou	r						
	AGRI	111				COLL 101			
Commu	nications	9 hour	s						
•••••		Communications (6 hours)	Ĭ			Oral Communications (3 hours)			
	ENGL	101*				COMM 104*			
	ENGL	102*, 104*							
	ENGL	203*							
Mathem	atics	3 hour	s						ı
matricin	MATH	125* (3)	"						
Civics		3 hour	s						
	HIST	106*(3)				PLSC 103*, 104* (3)			
	HIST	107* (3)							
Agri-Bu:	siness Co	re 27 - 29 hours							
	AGEC	123 Prin of Ag Econ* (3)				AGRN 113 Crop Science (3)			
	AGEC	213 Farm Business Mgmt* (3)				AGRN 214* Soil Science (4)			
	AGEC	223 Ag Comp Apps (3)				ANSC 114 Animal Science (4)			
	AGMC	205 Ag Mechanics (3)							
	AGRI	202 Ag Capstone (2)							
	AGRI	212 & 222 SOE (2)				OR AGRI 204 Internship (4)			
Agri-Bu	siness Aa	ronomy Option 18 hours					$\overline{}$		
7.g., 2 u.	AGRI	123 Ag Chemicals (3)							
	AGRI	223 Public Relations in Agri-Bs (3)							
	AGRN	223 Grain Crops* (3)							
	AGRN	243 Forage Crops* (3)							
	ANSC	213 Feeds & Nutrition (3)				OR AGRI 190* World Foods (3)			
	HORT	113 Greenhouse Management (3)							

Programs of Study 70 V1.04 **2019-20**

Agri-Business Technology: Livestock Production Option AAS

This program offers the graduate an Associate of Applied Science degree (AAS) which provides education for specific careers in agricultural business, livestock production. Graduates are prepared for the world of work upon successful completion of the program. While an AAS is not designed to transfer, it is possible to transfer to a four-year college if planned accordingly. Students planning to transfer should consult their faculty advisor before registering for classes to assure appropriate classes are selected.

Program of Study

Orientation				1 hour	
AGRI	111				
Communic	ations			9 hours	
Written	Communicati	ions (6 l	nours)		
ENGL	101*				
ENGL	102*				
ENGL	203*				
Oral Co	mmunication	s (3 hou	rs)		
COMM	104*	•	,		
Mathematic	cs			3 hours	
MATH	125*				
Civics				3 hours	
HIST	106*, 107*				
PLSC	103*				
Agri-Busin	ess Core			27 – 29 hours	
Agri-Busin AGEC				27 – 29 hours	
_	123*			27 – 29 hours	
AGEC	123* 213*			27 – 29 hours	
AGEC AGEC	123* 213* 223			27 – 29 hours	
AGEC AGEC AGEC	123* 213* 223 205			27 – 29 hours	
AGEC AGEC AGEC AGMC	123* 213* 223 205 202	OR	AGRI	27 – 29 hours 204	
AGEC AGEC AGEC AGMC AGRI AGRI	123* 213* 223 205 202	OR	AGRI		
AGEC AGEC AGEC AGMC AGRI AGRI	123* 213* 223 205 202 212 & 222 113	OR	AGRI		
AGEC AGEC AGEC AGMC AGRI AGRI AGRN AGRN	123* 213* 223 205 202 212 & 222 113	OR	AGRI		
AGEC AGEC AGEC AGMC AGRI AGRI AGRN AGRN	123* 213* 223 205 202 212 & 222 113 214* 114	OR	AGRI		
AGEC AGEC AGEC AGMC AGRI AGRI AGRN AGRN ANSC	123* 213* 223 205 202 212 & 222 113 214* 114	OR	AGRI	204 18 hours	
AGEC AGEC AGEC AGMC AGRI AGRI AGRN AGRN ANSC Livestock AGRN	123* 213* 223 205 202 212 & 222 113 214* 114 Option	OR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	204 18 hours 213	
AGEC AGEC AGEC AGMC AGRI AGRI AGRN AGRN ANSC Livestock AGRN	123* 213* 223 205 202 212 & 222 113 214* 114 Option 243*	OR	ANSC	204 18 hours 213 232*	

Suggested Plan of Study

FIRST YEAR

ANSC 114 A MATH 125 C	ng Mechanics ng Career Orientation nimal Science Quantitative Reasoning tten Communications Course TOTAL	Hours 3 1 4 3 3 14
AGEC 223 A AGRN 113 C ANSC 233 H	Principles of Ag Economics Agriculture Computer App. Brop Science	Hours 3 3 3 3 3 15
	SECOND YEAR	
AGRN 214 F ANSC 203 M ANSC 232 A	farm Business Management fundamentals of Soil Science fleat Science artificial Insemination fundamentals of Speech TOTAL	Hours 3 4 3 3 16
AGRN 243 F ANSC 153 B	g Capstone AGRI 222 – OR – AGRI 204 orage Crops seef Cattle Production seeds & Nutrition	Hours 2 2-4 3 3 3 16-18
	TOTAL HOURS REQUIRED	61-63

^{*}Prerequisite requirement



AGRI-BUSINESS TECHNOLOGY: Livestock Production Option

				Done	Curr	To do		Done	Curr	To do
Orientati	on		1 hour							
	AGRI	111 (Recommended)					COLL 101			
Commun	icationa		9 hours					_		
Commun		'ammunications (6 hours)	9 Hours				Oral Communications (3 hours)			
	ENGL	communications (6 hours)					COMM 104*			
	ENGL	102*, 104*					COMMINI 104			
	ENGL	203*								
	LIVOL	200								
Mathema	atics		3 hours							
	MATH	125*								
Civios			2 hours							
Civics	HIST	106*	3 hours				PLSC 103*, 104*			
	HIST	107*					PLSC 103 , 104			
	піот	107								
Agri-Bus	iness Co	re 27-29	hours							
	AGEC	123 Prin of Ag Econ* (3)					AGRN 113 Crop Science (3)			
	AGEC	213 Farm Business Mgmt* (3)					AGRN 214 Soil Science* (4)			
	AGEC	223 Ag Comp Apps (3)					ANSC 114 Animal Science (4)			
	AGMC	205 Ag Mechanics (3)								
	AGRI	202 Ag Capstone (2)								
	AGRI	212 & 222 SOE (2)					OR AGRI 204 Internship* (4)			
Agri-Rus	inace I iv	estock Option 1	8 hours							
Agii-Dus	AGRN	243 Forage Crops* (3)	o nours							
	ANSC	153 Beef Production* (3)								
	ANSC	203 Meat Science (3)				l				
	ANSC	213 Feeds & Nutrition (3)								
	ANSC	232 Artifical Insemination* (3)		[
	ANSC	233 Horse Science (3)								
		\								

 Programs of Study
 72 V1.04
 2019-20

Agri-Business Technology: Marketing and Management Option AAS

This program offers the graduate an Associate of Applied Science degree (AAS) which provides education for specific careers in agricultural business marketing and management. Graduates are prepared for the world of work upon successful completion of the program. While an AAS is not designed to transfer, it is possible to transfer to a four-year college if planned accordingly. Students planning to transfer should consult their faculty advisor before registering for classes to assure appropriate classes are selected.

Program of Study

Orientation				1 hour
AGRI	111			
Communica	tions			9 hours
Written	Communication	ns (6 h	ours)	
ENGL	101*			
ENGL	102*			
ENGL	203*			
Oral Co	mmunications (3 hour	s)	
COMM	104*			
Mathematic	-			3 hours
MATH	125*			
Civics				3 hours
HIST	106*, 107*			
PLSC	103*			
Agri-Busine	ss Core			27 – 29 hours
AGEC	123*			
AGEC	213*			
AGEC	223			
AGMC	205			
AGRI				
AGRI	212 & 222*	OR	AGRI	204*
AGRN	113			
AGRN	214*			
ANSC	114			
_	Management			Select 18 hours
AGRI	190*		BMGT	
AGRI	223		BMGT	
BMGT	175		BSAD	230
BMGT	200			

Suggested Plan of Study

FIRST YEAR

Fall Semester AGMC 205 Ag Mechanics AGRI 111 Ag Career Orientation ANSC 114 Animal Science MATH 125 Quantitative Reasoning Approved Written Communications TOTAL	Hours 3 1 4 3 3 14
Spring Semester AGEC 123 Principles of Ag Economics AGEC 223 Agriculture Computer App AGRN 113 Crop Science COMM 104 Fundamentals of Speech Approved Written Communications TOTAL	Hours 3 3 3 3 3 15
SECOND YEAR	
Fall Semester AGEC 213 Farm Business Management AGRN 214 Fundamentals of Soil Science BMGT 175 Management BMGT 223 Business Ethics Approved Civics Course TOTAL	Hours 3 4 3 3 3 16
Spring Semester AGRI 190 World Foods AGRI 202 Ag Capstone AGRI 212 & AGRI 222 – OR – AGRI 204 AGRI 223 Public Relations in Agri-Business BMGT 285 Human Resource Mgmt BSAD 230 Business Law TOTAL	Hours 3 2 2-4 3 3 3 16-18
TOTAL HOURS REQUIRED	61-63

^{*}Prerequisite requirement



AGRI-BUSINESS TECHNOLOGY: Marketing & Management Option

				Done	Curr	To do			Done	Curr	To do
Orientat	ion		1 hour								
	AGRI	111		<u> </u>	<u> </u>	<u> </u>					
Commu	nications		9 hours								
	Written (Communications (6 hours)					Oral Co	mmunications (3 hours)			
	ENGL	101*					COMM				
	ENGL	102*, 104*									
	ENGL	203*									
Mathem	atics		3 hours				l				
Matricin	MATH	125*	3 nours								
	1417 (1111	120									
Civics			3 hours								
	HIST	106*					PLSC	103*, 104*			
	HIST	107*				<u> </u>					
Aari-Bu	siness Co	re 27	-29 hours	Т	1				T		П
3	AGEC	123 Prin of Ag Econ* (3)									
	AGEC	213 Farm Business Mgmt* (3)								
	AGEC	223 Ag Comp Apps (3)	•								
	AGMC	205 Ag Mechanics (3)									
	AGRI	202 Ag Capstone (2)		l	l						
	AGRI	212 & 222 SOE (2)					OR	AGRI 204 Internship* (4)			
	AGRN	113 Crop Science (3)									
	AGRN	214 Soil Science* (4)									
	ANSC	114 Animal Science (4)									
Δari-Rus	sinoss Ma	rketing & Management	18 hours	Т	1		I		T		П
Agii-Du.	AGRI	190 World Food and Society						Students must select courses from			
	AGRI	223 Public Relations in Agri-		1				Agriculture or approved courses			
	BMGT	175 Management (3)	22311000 (0)					from Business.			
	BMGT	200 Marketing (3)									
	BMGT	223 Business Ethics (3)									
	BMGT	285 Human Resource Mana	gement* (3)	1							
			J -								

Agriculture - Ag Business Option AA

For students pursuing a four-year degree in all areas of agriculture, pre-veterinary medicine, and wildlife conservation, the following curriculum is suggested. For best transfer, students should contact the college to which they plan to transfer prior to graduation.

Program of Study

Orientation 1 hour AGRI 111# COLL 101 Communications 9 hours Written Communications (6 hours) ENGL 101* ENGL 102* Oral Communications (3 hours) COMM 104* Humanities 9 hours Students should select classes from two different disciplines (prefixes) **ART** 101, 106 HIST 101*, 102* ASL 101. 102* MUSC 101 109*, 222*, 225* PHIL **ENGL** 101*, 121, 201*, 202* **ENGL** 230*, 235*, 240*, 245* SPAN 101, 102* **FREN** TA 205 Mathematics 3 hours MATH 125*. 130*. 135*# Science 7 hours Students must meet the seven hour requirement by selecting two courses from different disciplines (prefixes) and at least one course with a lab Lab Non-Lab **BIOL** 101#, 110, 120 PHYS 105 BIOL 152*, 252* CHEM 101. 111*# GEOL 115, 210* PHYS 101, 190* Social and Behavioral Science 9 hours Students should select classes from two different disciplines (prefixes) Civics (3 hours) HIST 106*, 107* AGEC 123 (Ag majors only) **PLSC** 103* ECON 201*, 202* GEOG 111 PSYC 101, 211* SOC 101 GE CORE Electives 5 hours Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study Major Courses 17 hours Required Courses (14 Hours) AGEC 223 AGRN 214* AGRN 113 ANSC 114

- Preferred class for this degree option

AGRI

AGRI

223

233

Approved Electives (3 Hours)

AGEC 213

190

AGRI

Suggested Plan of Study

FIRST YEAR

Fall Semester	Hours
AGRI 111 Ag Career Development	1
AGRN 113 Crop Science	3
COMM 104 Fundamentals of Speech	3
ENGL 101 English Composition I	3
Approved Science Course	5
TOTAL	15
Spring Semester	Hours
AGEC 223 Ag Computer Applications	3
ANSC 114 Animal Science	4

ENGL 102 English Composition II

MATH 135 Algebra for Calculus

Approved Humanities Course

SECOND YEAR

TOTAL

3

3

16

60-63

Fall Semester	Hours
AGRN 214 Fundamentals of Soil Science	4
Approved Humanities Course - OR - Ag Elective	3
Approved Science Course	5
Approved Soc & Behavioral Science Course	3
TOTAL	15

Spring Semester	Hours
AGEC 123 Principles of Ag Economics	3
Approved Ag Elective – OR – Humanities Course	3
Approved Civics Course	3
Approved GE Core Elective	2-5
Approved Humanities Course	3
TOTAL	14-17

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

TOTAL HOURS REQUIRED

CROWDER COLLEGE		0
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ASSOCIATE OF ARTS DEGREE Agriculture - Ag Business Option

eneral Educ	cation Core	9	Done	Curr	To do			Done	Curr	То
Orientatio		1 hour			10 0.0	Or				1
07707764770	AGRI	111 (Recommended)					COLL 101			<u> </u>
Communi	ications	9 hours						T		
	Written C	Communications (6 hours)				Oral C	Communications (3 hours)			
	ENGL	101*				COMM	· · · · · · · · · · · · · · · · · · ·			
	ENGL	102*, 104*								
Humanitie	es	9 hours						Т		Г
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC				
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*					101, 102*			
	FREN	101				TA	205			
Mathema	tics	3 hours						Т		Г
	MATH	125*				МАТН	135* (Recommended)			
	MATH	130*								
Science		7 hours		l				T		Π
	Lab	1.1164.15				Non-L	ab			
	BIOL	101, 110, 120				PHYS				
	BIOL	152*, 252*								
	CHEM	101, 111*								
	GEOL	115, 210*								
	PHYS	101 , 190*								
Social and	d Behavior	al Science 9 hours						$\overline{}$		Г
	Civics	3 hours								
	HIST	106*				AGEC	123 (Ag majors only)			
	HIST	107*					201*, 202*			
	PLSC	103*, 104*				GEOG				
							101, 211*			
							101			
GE Core I	Electives	5 hours								П
		it hours from courses listed								
		not be used as Core electives i								_
		er section of this Program of								-
Study.	naci anom	cr section or this r rogiant of								
Major Co	urene	14 hours		i I		1				
major co		(12 hours)				Appro	ved Electives (3 hours)			
	AGEC	223 Ag Computer Apps (3)					213 Farm Business Mgmt (3)			
	AGRN	113 Crop Science (3)					190 World Food and Society (3)			
	AGRN	214 Fund Soil Science* (4)					223 Public Relations in Agri-Bs (3)			
	ANSC	114 Intro to Animal Sci (4)					233 Travel Seminar in Agriculture (3)			
							and the market of the state of			_
							es determined by transferring			<u> </u>
							on's requirements and			
	1		1	1	1	rconsul ¹	tation with the Agriculture faculty.	1	I	1

Agriculture - Ag Education Option AA

For students pursuing a four-year degree in all areas of agriculture, pre-veterinary medicine, and wildlife conservation, the following curriculum is suggested. For best transfer, students should contact the college to which they plan to transfer prior to graduation. The AAT degree requires a minimum GPA of 2.75 and a passing score approved by DESE on each section of the MoGEA. Because GPA and MoGEA entrance score requirements vary by institution, it is important to work closely with your Ag education advisor at Crowder and the institution to which you plan to transfer. Students must register with FCSR and have a clearance letter before completing any observation in schools.

Program of Study

Orientatio	n		1 hour
AGRI	" 111#	COLL	
Communi	cations		9 hours
	Communications (6 hour	s)	o mouno
ENGL	101*	-,	
ENGL	102*		
Oral Co	mmunications (3 hours)		
COMM	104*		
Humanitie	ns .		9 hours
	s should select classes fron	n two diffe	
(prefixes		ii two aiii	Sterit disorphilies
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathemat	ics		3 hours
MATH	125*, 130*, 135*#		
Science			7 hours
Students	s must meet the seven hou	r requiren	nent by selecting two
courses	from different disciplines (p	refixes) a	and at least one course
with a la	b		
	Lab		Non-Lab
BIOL	101#, 110, 120	PHYS	105
BIOL	152*, 252*		
CHEM	111*#		
GEOL	115, 210*		
PHYS	101, 190*		
	d Behavioral Science		9 hours
	s should select classes fron	n two diffe	erent disciplines
(prefixes	,		
_	d (9 hours)		nal Elective Courses
HIST	106*, 107*	AGEC	
PLSC			201*, 202*
PSYC	101	GEOG PSYC	
		SOC	101
GE CORE	Floativos	300	
		odditio	5 hours
	—Approved Elective—Any ted above. Courses canno		
	nder another section of this		
Major Cou			21 hours
AGRN	113	EDUC	21 nours 231
AGRN	214*	EDUC	251
	114	HORT	113
ANSC			

- Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR Fall Semester AGRI 111 Ag Career Development ANSC 114 – OR – AGRN 113 (3hrs) ENGL 101 English Composition I PSYC 101 General Psychology Approved Science Course	Hours 1 4 3 3 3-5 DTAL 14-16
Spring Semester AGRN 113 – OR – ANSC 114 (4hrs) COMM 104 Fundamentals of Speech ENGL 102 English Composition II HIST 106 – OR – HIST 107 MATH 135 Algebra for Calculus	Hours 3 3 3 3 3 7 0TAL 15
SECOND YEAR	
Fall Semester AGRN 214 Fundamentals of Soil Scient EDUC 231 Educational Psychology PLSC 103 – OR – PLSC 104 Approved GE Core Elective Approved Science Course	Hours 4 3 3 3 3 5 DTAL 16-18
Spring Semester EDUC 251 Teaching Prof w/Field Ex HORT 113 Greenhouse Managemen Approved GE Core Elective Approved Humanities Course Approved Humanities Elective Approved Humanities Course	
TOTAL HOURS REQU	IRED 62-67

^{*}Prerequisite required

0	CROWDER COLLEGE
O	1

ASSOCIATE OF ARTS DEGREE Agriculture - Ag Education Option

neral Edu				Curr	To do			Done	Curr	То
Orientatio		1 ho	our			Or				
	AGRI	111 (Recommended)				COLL	101			<u> </u>
Communi	cations	9 hou	ırs							
	Written	Communications (6 hours	s)			Oral Co	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
Humanitie	es	9 hou	ırs							
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			_
	FREN	101				TA	205			
Mathema	tics	3 hou	ıre							
era a a reliid	MATH	125*	41 3							
	MATH	130*								
	MATH	135* (Recommended)								
Science		7 hou	ıro							
Science	Lab	7 1100	115			Non-La	a.b			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*				11113	103			-
	CHEM	101								
	CHEM	111* (Recommended)								
	GEOL	115, 210*								
	PHYS	101, 190*								
Social and	Civics	oral Science 9 hours 6 hours	3			Additio	onal 3 hours			
	HIST	106*				AGEC	123#			
	HIST	107				ECON	201*, 202*			
	PLSC	107				GEOG	111			_
	PLSC	103", 104"				PSYC				_
							101 (Required)			_
						PSYC	211*			_
						SOC	101			<u> </u>
GE Core E		5 hou								
		d Elective. Any additional 5 cre						<u> </u>		<u> </u>
		sted above. Courses cannot b								_
		s if counted under another sec	ction							L_
of this Prog	ram of Stu	dy								L
Major Co	urses	21 hou	ırs							
•	AGRN	113 Crop Science (3)								
	AGRN	214 Fund Soil Science* (4)					## Ag Education majors need to take			
		114 Intro to Animal Sci (4)					PLSC 103 or PLSC 104 and HIST 106 to			
	ANSC	T 14 IOTO TO ADMINISTRATI	I I							
	ANSC	` '					meet DESE certification guidelines.			
	EDUC EDUC	231 Educational Psych (3) 251 Teaching Pro w /Field Ex	(n (3)				meet DESE certification guidelines.			

Agriculture - Agronomy Option AA

For students pursuing a four-year degree in all areas of agriculture, pre-veterinary medicine, and wildlife conservation, the following curriculum is suggested. For best transfer, students should contact the college to which they plan to transfer prior to graduation.

Program of Study

Orientatio	n		1 hour							
AGRI	111#	COLL	101							
Communi	cations		9 hours							
Written	Communications (6 hou	rs)								
ENGL	101*									
ENGL	102*									
	mmunications (3 hours)									
COMM	104*									
	Humanities 9 hours									
Students (prefixes	s should select classes fro s)	m two dif	ferent disciplines							
ART	101, 106	HIST	101*, 102*							
ASL	101, 102*	MUSC	101							
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*							
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*							
FREN	101	TA	205							
Mathemat			3 hours							
MATH	125*, 130*, 135*#									
Science			7 hours							
courses	s must meet the seven hor from different disciplines (vith a lab		, ,							
	Lab		Non-Lab							
BIOL	101#. 110. 120	PHYS	105							
BIOL	152*, 252*									
CHEM	111*#									
GEOL	115, 210*									
PHYS	101, 190*									
Social and	d Behavioral Science		9 hours							
	s should select classes fro	m two dif	ferent disciplines							
(prefixes	'									
Civics (3 I	•	٨٥٥٥	400# /							
HIST PLSC	106*, 107* 103*	AGEC ECON	123# (Ag majors only) 201*, 202*							
	100	GEOG	111							
		PSYC								
		SOC	101, 211							
GE CORE	Electives		5 hours							

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Cou	ırses		17 hours	
Required	Courses (14 Hours)			
AGEC	223	AGRN	214*	
AGRN	113	ANSC	114	
Approve	d Electives (3 Hours)			
AGRI	123	ANSC	213	
AGRI	233	HORT	101	
AGRN	121	HORT	103	
AGRN	221	HORT	113	
AGRN	223	HORT	204	
AGRN	243			

Suggested Plan of Study

FIRST YEAR Fall Semester	Hours
AGRI 111 Ag Career Development AGRN 113 Crop Science COMM 104 Fundamentals of Speech ENGL 101 English Composition I MATH 135 Algebra for Calculus Approved GE Core Elective	1 3 3 3 3 3 16
Spring Semester AGEC 223 Ag Computer Applications ANSC 114 Animal Science ENGL 102 English Composition II Approved Science Course TOTAL	Hours 3 4 3 3-5 13-15
SECOND YEAR	
Fall Semester AGRN 214 Fundamentals of Soil Science Approved Civics Course Approved Humanities Course or Ag Elective Approved Science Course TOTAL	Hours 4 3 3 3-5 13-15
Spring Semester AGEC 123 Principles of Ag Economics Approved Ag Elective or Humanities Course Approved GE Core Elective Approved Humanities Course Approved Humanities Course or Ag Elective TOTAL	Hours 3 3 2 3 3
IOIAL	14

^{*}Prerequisite required

CROW COLL	DER	ASSOC	HATE O	FARTS	DEGREE			
COLL	EGE	Agricu	Iture - A	gronom	y Option			
neral Educ	cation Core	e	Done Curr	To do		Done	Curr	To d
Orientatio		1 hour		Or				
	AGRI 111	(Recommended)		COLL	101			
Communi		9 hours						
	Written C	Communications (6 hours)			communications (3 hours)			
	ENGL	101*		COMM	104*			
	ENGL	102*, 104*						
Humanitie	es	9 hours						
	ART	101, 106		HIST	101*, 102*			
	ASL	101, 102*		MUSC	101			
	ENGL	109*, 222*, 225*		PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*		SPAN	101, 102*			
	FREN	101		TA	205			
Mathema	tics	3 hours	Т					
	MATH	125*		MATH	135* (Recommended)			
	MATH	130*						
Science		7 hours	1 1					
Science	Lab	7 Hours		Non-La	a b			
	BIOL	101, 110, 120		PHYS	105			
	BIOL	152*, 252*			100			
	CHEM	101						
	CHEM	111* (Recommended)						
	GEOL	115, 210*						
	PHYS	101 , 190*						
Social and	d Rehavior	al Science 9 hours						
oociai and	Civics (3							
	HIST	106*		AGEC	123 (Ag majors only)			
	HIST	107*		ECON	201*, 202*			
	PLSC	103*, 104*		GEOG				
				PSYC	101, 211*			
				SOC	101			
GE Core E	-lectives	5 hours						
L		nours from courses listed						
Any addition							II	_
-						l l	1 1	
above. Cou	ırses canno	t be used as Core electives if section of this Program of						

Study.				 	L
Major Courses 14 hours					Γ
Requi	red (14 hours)	Appro	ved Electives (3 hours)		
AGEC	223 Ag Computer Apps (3)	 AGRI	123 Agriculture Chemicals (3)	 	L
AGRN	113 Crop Science (3)	 AGRI	233 Travel Seminar in Agriculture (3)	 	L
AGRN	214 Fund Soil Science* (4)	 AGRN	121 Crop Evaluation (1)	 	L
ANSC	114 Intro to Animal Sci (4)	 AGRN	221 Soil Evaluation (1)	 	١.
		AGRN	223 Grain Crops (3)	 	L
		AGRN	243 Forage Crops (3)	 	١.
		ANSC	213 Feeds and Nutrition (3)	 	١.
		HORT	101 General Horticulture (3)	 	l _
		HORT	103 Floriculture (3)	 	l _
		HORT	113 Greenhouse Management (3)	 	-
		HORT	204 Nursery Mgmt/Landscape (4)	 	١.
		Course	s determined by transferring		
		institutio	on's requirements and		
		consult	ation with the Agriculture faculty.		

Agriculture - Animal Science Option AA

For students pursuing a four-year degree in all areas of agriculture, pre-veterinary medicine, and wildlife conservation, the following curriculum is suggested. For best transfer, students should contact the college to which they plan to transfer prior to graduation.

Program of Study

Orientatio	on		1 hour
AGRI		COLL	
Commun	ications		9 hours
Written	Communications (6 ho	urs)	
ENGL	101*		
ENGL	102*		
Oral Co	ommunications (3 hours	<i>)</i>	
COMM	104*		
Humaniti	es		9 hours
Student (prefixe	ts should select classes fr s)	om two d	lifferent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathema MATH	<i>tics</i> 125*, 130*, 135*#		3 hours
Science	·		7 hours
courses	ts must meet the seven ho s from different disciplines with a lab		
	Lab		Non-Lab
BIOL	101, 110, 120	PHYS	105
BIOL	152*, 252*		
CHEM	111* #		
GEOL	, =		
PHYS	101, 190*		
	d Behavioral Science		9 hours
(prefixe	,	om two d	lifferent disciplines
Civics (3			
HIST	,	AGEC	(.9),
PLSC	103*	ECON	- , -
		GEOG	111
		PSYC	101, 211*
	_	SOC	101
GE CORE	E Electives		5 hours

GE CORE Electives

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Co	urses		17 hours
Require	d Courses (13 Hours)		
AGEC	223	ANSC	114*
AGRN	113	ANSC	213
Approve	ed Electives (4 Hours)		
AGRI	233	ANSC	180
AGRN	214	ANSC	223
AGRN	243	ANSC	232
ANSC	101	ANSC	233
ANSC	153		

- Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester AGRI 111 Ag Career Development ANSC 114 Animal Science COMM 104 Fundamentals of Speech ENGL 101 English Composition I MATH 135 Algebra for Calculus Approved GE Core Elective TOTAL	Hours 1 4 3 3 3 17
Spring Semester AGEC 223 Ag Computer Applications AGRN 113 Crop Science ENGL 102 English Composition II Approved GE Core Elective Approved Science Course TOTAL	Hours 3 3 3 2 3-5 14-16
SECOND YEAR	
Fall Semester AGEC 123 Principles of Ag Economics CHEM 111 General Chemistry Approved Civics Course Approved Humanities Course/or Ag Elective TOTAL	3 5 3 3-4 14-15
Spring Semester ANSC 213 Feeds & Nutrition Approved Ag Elective/or Humanities Course Approved Humanities Course Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 3 3-4 3 3 15-16

^{*}Prerequisite required

© CROW	SCROWDER ASSOCIATE OF ARTS DEGREE									
COLL	EGE	Agricultur	'e - /	4nir	nal :	Scie	nce Option			
General Educ	ation Cor	е	Done	Curr	To do			Done	Curr	To do
Orientatio	n	1 hour				Or				
	AGRI	111 (Recommended)				COLL	101			
Communic	cations	9 hours	Т					Т		
		Communications (6 hours)				Oral C	communications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*								
Humanitie	s	9 hours								
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC				
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Madhamad		2.5								
Mathemat	MATH	3 hours				ΜΔ ΤΗ	135* (Recommended)			
	IVIATIT	123 , 130				IVIA III	133 (Neconinended)			
Science		7 hours								
	Lab					Non-L				
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101								
	CHEM	111* (Recommended)								
	GEOL	115, 210*								
	PHYS	101, 190*						_		
Social and		ral Science 9 hours								
	Civics (3									
	HIST	106*					123 (Ag majors only)			
	HIST	107*					201*, 202*			
	PLSC	103*, 104*				GEOG				
							101, 211*			
						SOC	101			
GE Core E		5 hours								
		hours from courses listed								
		t be used as Core electives if								
	der another	section of this Program of								
Study.										
Major Cou	ırses	17 hours								
		i (13 hours)				Appro	ved Electives (4 hours)			
	AGEC	223 Ag Computer Apps (3)					233 Travel Seminar in Agriculture (3)			
	AGRN	113 Crop Science (3)					214 Fundamentals of Soil Science (3)			
	ANSC	114* Intro to Animal Sci (4)					243 Forage Crops (3)			
	ANSC	213 Feeds & Nutrition (3)					101 Livestock Selection (1)			
						ANSC	153 Beef Cattle Production (3)			
						ANSC	180 Intro to Veterinary Science (2)			
							223 Farm Animal Health (3)			
							232 Artificial Insem & Reprod (3)			
						ANSC	233 Horse Science (3)			
						_				
							s determined by transferring			
1						instituti	on's requirements and			
							ation with the Agriculture faculty.			

Agriculture - Poultry Science Option AA

For students pursuing a four-year degree in all areas of agriculture, pre-veterinary medicine, and wildlife conservation, the following curriculum is suggested. For best transfer, students should contact the college to which they plan to transfer prior to graduation.

Program of Study

0: / //			4.6
Orientatio		0011	1 hour
AGRI	111#	COLL	
Communi			9 hours
ENGL	Communications (6 hou	rs)	
ENGL	102*		
	mmunications (3 hours)		
COMM	104*		
Humanitie	es		9 hours
	s should select classes fro	m two dif	ferent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathemat			3 hours
MATH	125*, 130*, 135*#		
Science			7 hours
	s must meet the seven hor from different disciplines (b		
	Lab		Non-Lab
BIOL	101, 110, 120	PHYS	105
BIOL	152*, 252*		
CHEM	111*#		
GEOL	115, 210*		
PHYS	101, 190*		
	d Behavioral Science		9 hours
	s should select classes fro	m two dif	ferent disciplines
(prefixes	,		
HIST	•	AGEC	123# (Ag Majors Only)
PLSC	103*	ECON	201*, 202*
		GEOG	111
		PSYC	101, 211*
		SOC	101
GE CORE	Electives		5 hours
Any additi	Electives Onal 5 credit hours from coused as Core electives if one am of Study		
Any addition cannot be this Progra	onal 5 credit hours from co used as Core electives if o am of Study		ted above. Courses
Any additi	onal 5 credit hours from co used as Core electives if o am of Study		ted above. Courses under another section of
Any addition cannot be this Programmajor Cou	onal 5 credit hours from coused as Core electives if of am of Study	counted u	ted above. Courses under another section of 17 hours

- Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

FIRST YEAR	
Fall Semester AGRI 111 Ag Career Development ANSC 114 Animal Science COMM 104 Fundamentals of Speech ENGL 101 English Composition I MATH 135 Algebra for Calculus Approved GE Core Elective	Hours 1 4 3 3 3 17
Spring Semester AGEC 223 Ag Computer Applications AGRN 113 Crop Science ENGL 102 English Composition II POSC 104 Intro to Careers in Poultry Approved Science Course TOTAL	Hours 3 3 2 3-5 14-16
SECOND YEAR	
Fall Semester AGEC 123 Principles of Ag Economics CHEM 111 General Chemistry POSC 105 Avian Biology Approved GE Core Elective Approved Humanities Course TOTAL	Hours 3 5 2 2 3 15
Spring Semester ANSC 213 Feeds & Nutrition Approved Civics Course Approved Humanities Course Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 3 3 3 3 15
TOTAL HOURS REQUIRED	61-63
*Prerequisite required	
This Suggested Plan of Study is based on course	e offerings a

CROW	VDER	ASSOC	IATI	ΕO	F AF	RTS	DEGREE			
COLI	LEGE	Agricultur	e - F	ou	ltry	Scie	nce Option			
General Edu	cation Co	re	Done	Curr	To do			Done	Curr	To do
Orientatio	on	1 hour				Or				
	AGRI	111 (Recommended)				COLL	101			
Commun	ications	9 hours	1							
	Written	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*								
Humanitie	05	9 hours	l	1						
Trumamic	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101 , 102			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 121, 201, 202			
_	FREN	101				TA	205			
Mathema	tics	3 hours								
	MATH	125*, 130*				MATH	135* (Recommended)			
Science		7 hours	Т	П			T.			
Gololio	Lab	, moure				Non-La	ab			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101								
	CHEM	111* (Recommended)								
	GEOL	115, 210*								
	PHYS	101, 190*								
Coolelon	d Bohavia	oral Science 9 hours								
Social all	Civics (
	HIST	106*				AGEC	123 (Ag majors only)			
	HIST	107*				ECON	201*, 202*			
	PLSC	103*, 104*				GEOG	111			
	. 200	100 ; 101				PSYC	101, 211*			
						SOC	101			
OF 0		E h								
GE Core										
-		hours from courses listed								
		ot be used as Core electives if								
Study.	ider anothe	r section of this Program of								
		1-1					1			
Major Co	AGEC	17 hours 223 Ag Computer Apps (3)								
	AGEC									
	AGRN	113 Crop Science (3) 114 Intro to Animal Sci (4)								
	ANSC	213 Feeds & Nutrition (3)								
	POSC	104 Careers in Poultry Sci (2)								
	POSC	105 Avian Biology (2)								
	FUSU	100 Aviati biology (2)				<u> </u>			<u> </u>	

Alternative Energy: Solar Energy Technician Certificate Alternative Energy – Solar AAS

The Alternative Energy-Solar AAS degree provides students with a unique applied foundation in solar technologies. The program covers all aspects of solar technologies and is designed to give the student a strong footing for employment or transfer to any of our cooperative programs that are available at Missouri State University or Pittsburg State University. Students in the Alternative Energy-Solar program include engineering, science, and technology majors. Students are required to take the entry level NABCEP PV Associate exam given as part of the ENER 220 course. Students must also report their score to the College for completion of this degree program.

The Solar Energy Technician certificate emphasizes learning through coursework and applied hands-on labs. The certificate allows students to move directly into the alternative energy workforce installing solar hardware and systems. Students are required to take the entry level NABCEP PV Associate exam given as part of the ENER 220 course. Students must also report their score to the College for completion of this certificate program.

Program of Study

Certificate Courses 25 hours **AMT** 112 Occupational Safety (3) CONS 105 Introduction to Construction (3) 131 Plumbing (3) CONS CONS 141* Electrical (3) **ENER** 105 Intro to Energy (3) **ENER** 210* Solar Thermal Systems (5) **ENER** 220* Solar Electrical Systems (5) Communications 9 hours Written Communications (6 hours) **ENGL** 101* **ENGL** 102* **ENGL** 203* Oral Communications (3 hours) COMM 104* Mathematics 3 hours **MATH** 104* (3) **MATH** 125* (3) **MATH** 135* (3)Science 5 hours **PHYS** 101 (5) Orientation 1 hour COLL 101 College Orientation (1) Civics 3 hours HIST 106*, 107* **PLSC** 103* Required Courses 13 hours **BSAD** 103 (2) DRFT 101 (3) **CNS** 101 (3) **ENER** 200* (5) Approved Electives 5 hours **AMT** 102 142 (4) (3)ENER 256, 257, 258 Projects (1-3) **CONS** 245 (3)**DRFT** 103 (3)

Suggested Plan of Study

FIRST YEAR

Fall Semester AMT 112 Occupational Safety CONS 105 Introduction to Construction CONS 131 Plumbing ENER 105 Introduction to Energy TOTAL	Hours 3 3 3 3 12
Spring Semester CONS 141 Electrical ENER 210 Solar Thermal Systems ENER 220 Solar Electric Systems Approved Mathematics Course TOTAL Graduate with Active Solar Technician Certificat	Hours 3 5 5 3 16
Fall Semester CNS 101 Intro to Electronics COLL 101 College Orientation COMM 104 Fundamentals of Speech ENER 200 Passive Solar Systems TOTAL	Hours 3 1 3 5 12
Spring Semester BSAD 103 Professional Development DRFT 101 Intro to Engineering Drawing PHYS 101 Survey of Physics Approved Elective Approved Written Communications Course TOTAL	Hours 2 3 5 3 16
THIRD YEAR Fall Semester Approved Civics Course Approved Elective Approved Written Communications Course TOTAL Graduate with Solar AAS	Hours 3 2 3 8
Total CERTIFICATE Hours Required Additional Hours Needed for AAS Total AAS Hours Required	25 39 64

Students interested in enrolling in alternative energy classes should be advised through the MARET Center. For additional information, please contact 417-455-5422.

Courses for Certificate	
Additional Courses for AAS Degree	
0= 1// 0/	·



CERTIFICATE Solar Energy Technician

Students must earn 25 hours for this certificate.

		Done	Curr	To do		
Major Courses	25 hours					
AMT	112 Occupational Safety (3)					
CONS	105 Intro to Construction (3)					
CONS	131 Plumbing (3)					
CONS	141 Electrical* (3)					
ENER	105 Intro to Energy (3)					
ENER	210 Solar Thermal Systems* (5)					
ENER	220 Solar Electric Systems* (5)					

	ENER	220 Solar Electric Systems* (5)			L					
CROV	VDER LEGE	ASSOCIATE OF	APF	LIE	D S	CIEI	NCE DEGREE			
COL	LEGE	Altern	ative	e Er	nera	v - S	Solar			
			_		To do			Done	Curr	To d
Orientatio	on	1 hour								
О	OLL	101								
Commun	ications	9 hours								
И	/ritten Con	nmunications (6 hours)				Oral C	ommunications (3 hours)			
E	NGL	101*				COMM	104*			
E	NGL	102*, 104								
E	NGL	203*								
Mathema	atics	3 hours								
М	ATH	104*				MATH	125*			
M	ATH	135*								
Science		5 hours								
P	HYS	101								
Civics		3 hours	1							
Н	IST	106*				PLSC	103*, 104*			
Н	IST	107*								
Required	Courses	38 hours	1							
Α	MT	112 Occupational Safety (3)				Appro	ved Electives (5 hours)			
В	SAD	103 Professional Development (2)				AMT	102 Intro to Industrial ⊟ect (3)			
CI	NS	101 Introduction to Electronics (3)				CONS	245 Project Management (3)			
C	ONS	105 Introduction to Construction (3)				DRFT	103 Technical Draw ing (3)			
C	ONS	131 Plumbing (3)				ENER	142 Introduction to Wind (4)			
C	ONS	141 ⊟ectrical* (3)				ENER	256, 257, 258 Projects (1-3)			
DI	RFT	101 Intro to Engineering Drawing (3)								
E	NER	105 Introduction to Energy (3)								
E	NER	200 Passive Solar Systems (5)								
E	NER	210 Solar Thermal Systems (5)								
E	NER	220 Solar Electric Systems (5)								

CERTIFICATE TO AAS

Alternative Energy: Wind Energy Technician Certificate Alternative Energy – Wind AAS

The Alternative Energy Program AAS Degree provides students with a practical foundation in renewable energy technology. The program's emphasis on vocational wind turbine technology is designed to give the student a strong footing for employment or transfer to any of our cooperative programs that are available at Missouri State University or Pittsburg State University. Students in the Alternative Energy program include engineering, science, and technology majors. Students are required to take a certification exam given as part of the ENER 232 course and report their score to the College for completion of this degree program. Students are strongly encouraged to contact the Wind Instructor for advisement before beginning this program.

The Wind Energy Technician certificate provides students with hands-on learning opportunities. The curriculum is designed to prepare students for entry level employment. Students are required to take a certification exam given as part of the ENER 232 course and report their score to the College for completion of this degree program. Students are strongly encouraged to contact the Wind Instructor for advisement before beginning this program.

Program of Study

0 4:5:				00.1
Certifica AMT			المنساما المما	29 hours
	102	Introduction to Ind		, , ,
AMT	104	Electrical Motor C	` '	
AMT	112	Occupational Safe	, ,	(2)
AMT	204*	Programmable Lo	•	ers (3)
	101	Introduction to Ele	` '	
ENER		Introduction to Wi	` '	
ENER		Wind Turbine Tro	_	(4)
ENER	232*	Wind Turbine Inte		
MATH	104*	Technical Mathem	natics - OR	– MATH 125* (3)
Commu	nicati	ons		9 hours
Written	Comn	nunications (6 hou	ırs)	
ENGL	101*			
ENGL	102*			
ENGL	203*			
Oral Co	mmur	nications (3 hours)		
COMM	104*			
Science)			5 hours
PHYS	101 ((5)		
Orienta	tion			1 hour
COLL	101	College Orientation	(1)	
Civics				3 hours
HIST	106*,	107*		
PLSC	103*			
Require	d Cou	urses		20 hours
AMT	132* ((3) ENE	R 105 (3)	
BSAD	103 ((2) ENE		
CNS	115 ((3) ENE	R 162* (3)	
AAS Ap	prove	d Electives		3 hours
BSAD	115 ((3) ENE	R 256.257	7.258 Projects (1-3)
BSAD	125 ((3) MAT	H 112* (3))

- * Prerequisite requirement
- ± Not required for AAS

Suggested Plan of Study

Suggested Flair of Study	
FIRST YEAR	
Fall Semester AMT 102 Introduction to Industrial Electricity AMT 104 Electrical Motor Controls AMT 112 Occupational Safety ENER 142 Introduction to Wind TOTAL	3 3 3 4 13
Spring Semester	Hours
AMT 204 Programmable Logic Controllers CNS 101 Introduction to Electronics ENER 144 Wind Turbine Troubleshooting ENER 232 Wind Turbine Internship MATH 104 – OR – MATH 125 TOTAL Graduate with Wind Energy Technician Certifica	3 4 3 3 16
CECOND VEAD	
SECOND YEAR Fall Semester COLL 101 College Orientation ENER 105 Introduction to Energy ENER 160 Intro to Process Technology PHYS 101 Survey of Physical Science TOTAL	Hours 1 3 3 5 12
Spring Semester AMT 132 Industrial Hydraulics COMM 104 Fundamentals of Speech ENER 162 Intro to Electric Power Trans Approved Written Communications Course TOTAL	3 3 3 3 3 12
THIRD YEAR	
Fall Semester BSAD 103 Professional Development CNS 115 CISCO Networking I Approved Civics Course Approved Elective Approved Written Communication Course TOTAL Graduate with Wind Energy Technician AAS	Hours 2 3 3 3 14
Total CERTIFICATE Hours Required Additional Hours Needed for AAS Total AAS Hours Required	29 38 67

Students interested in enrolling in alternative energy classes should be advised through the MARET Center. For additional information, please contact 417-455-5422.

Courses for Certificate	
Additional Courses for AAS Degree	



ENER

232 Wind Turbine Internship* (3)

CERTIFICATE Wind Energy Technician

Students must earn 29 hours for this certificate.

212301110		9 hours for this certificate.		Done	Curr	To do				
Mathen	natics	3 ho	urs						T	T
	MATH	104 Technical Mathematics* (3)		l	l					
OR	MATH	125 Quantitative Reasoning (3)							<u> Ш</u>	
Major C	Courses	26 ha	urs				Notes: NCCER Registration is	$\overline{}$	$\overline{}$	T
-	AMT	102 Introduction to Industrial Electricity (3)				available with the addition of CONS 105			
	AMT	104 Electrical Motor Controls* (3)								
	AMT	112 Occupational Safety (3)								
	AMT	204 Programmable Logic Controllers I* (3)		l					
	CNS	101 Introduction to Electronics (3)								
	ENER	142 Introduction to Wind (4)								
	ENER	144 Wind Turbine Troubleshooting* (4)								
	ENER	232 Wind Turbine Internship* (3)							<u> </u>	上
CRC	WDER	ASSOCIATE OF	APF	PLIE	D S	CIE	NCE DEGREE			
CO	LLEGE	Alterna								
		Alterna		Curr			VIIIG	Done	Curr	To
Orienta	ition	1 hour	Done	Juii	10 00			Done	Juin	10
	COLL	101								
Commi	unications	9 hours								
Commi		ommunications (6 hours)				Oral (Communications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*								
	ENGL	203*								
Mather	natics	3 hours								
wattie	MATH	104*								
	MATH	125*								
Scienc	0	5 hours						T		
Scienc	PHYS	101								
Civics		3 hours								
CIVICS	HIST	106*				PLSC	103*, 104*			
	HIST	107*				LOC	103 , 104			
Da su sin		40 havina	Ī			A	and Floring Oham	T		
Requir	ed Course						oved Electives 3 hours			
	AMT AMT	102 Intro to Industrial Electricity (3) 112 Occupational Safety (3)					115 Computer Concepts (3) 125 Computer Applications (3)			
	AMT	132 Industrial Hydraulics* (3)				ENER	256, 257, 258 Projects (1-3)			-
	AMT	204 Programmable Controllers* (3)					112 Trigonometry (3)			-
	BSAD	103 Professional Development (2)				111 1200	112 HigoHollietty (3)			-
	CNS	101 Introduction to Electronics (3)								-
	CNS	115 CISCO Networking I (3)								
	ENER	105 Introduction to Energy (3)								
	ENER	142 Introduction to Wind (4)								
	ENER	144 Turbine Troubleshooting* (4)								
	ENER	160 Intro to Process Tech (3)								
	ENER	162 Intro to ⊟ect Pow er Trans* (3)								
_								_		-

Art and Design AA

The Associate in Arts Degree in Art and Design provides the career student with the basic and comprehensive tools of art and design foundations. With a solid academic structure from Crowder College, students can transfer to four-year institutions where bachelor degrees are offered in graphic design, painting, sculpture, fibers, ceramics, drawing, jewelry, art history, art education, media and computer arts. Elective courses should be determined by contacting the college and department to which students wish to transfer. The following program is suggested if students have not yet chosen the institution to which they plan to transfer following graduation.

Program of Study

Orientatio	n		1 hour
COLL	101		
Communi	cations		9 hours
Written	Communications (6 ho	urs)	
ENGL	101*		
ENGL	102*		
Oral Co.	mmunications (3 hours	;)	
COMM	104*		
Humanitie	s		9 hours
Students	s should select classes fr	om two di	fferent disciplines (prefixes)
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	
ENGL	109, 222, 225	PHIL	101*, 121, 201*, 202*
ENGL	230, 235, 240, 245	SPAN	101, 102*
FREN	101	TA	205
Mathemat	ics		3 hours
MATH	125* #, 130*, 135*		
	120 11, 100 , 100		
Science	120 11, 100 , 100		7 hours
Science Students	s must meet the seven he	•	ement by selecting two
Science Students courses	s must meet the seven he	•	
Science Students	s must meet the seven he from different disciplines b	•	ement by selecting two and at least one course
Science Students courses with a la	s must meet the seven he from different disciplines b <i>Lab</i>	(prefixes)	ement by selecting two and at least one course
Science Students courses with a la	s must meet the seven he from different disciplines b Lab 101, 110, 120	•	ement by selecting two and at least one course
Science Students courses with a la BIOL BIOL	s must meet the seven he from different disciplines b Lab 101, 110, 120 152*, 252*	(prefixes)	ement by selecting two and at least one course
Science Students courses with a la BIOL BIOL CHEM	s must meet the seven he from different disciplines b Lab 101, 110, 120 152*, 252* 101, 104, 111*	(prefixes)	ement by selecting two and at least one course
Science Students courses with a la BIOL BIOL CHEM GEOL	s must meet the seven he from different disciplines b Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210*	(prefixes)	ement by selecting two and at least one course
Science Students courses with a la BIOL BIOL CHEM GEOL PHYS	s must meet the seven he from different disciplines b Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190*	(prefixes)	ement by selecting two and at least one course Non-Lab 105
Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and	s must meet the seven he from different disciplines b Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* H Behavioral Science	(prefixes)	ement by selecting two and at least one course Non-Lab 105 9 hours
Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students	s must meet the seven he from different disciplines b Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Behavioral Science is should select classes from	(prefixes)	ement by selecting two and at least one course Non-Lab 105
Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students Civics (3	Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Dehavioral Science s should select classes from the from different his select	PHYS	ement by selecting two and at least one course Non-Lab 105 9 hours fferent disciplines (prefixes)
Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students Civics (3 HIST	Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Hehavioral Science s should select classes fr hours 106*, 107*	PHYS com two did	ement by selecting two and at least one course Non-Lab 105 9 hours fferent disciplines (prefixes) 201*, 202*
Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students Civics (3	Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Dehavioral Science s should select classes from the from different his select	PHYS rom two did ECON GEOG	when the property of the prope
Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students Civics (3 HIST	Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Hehavioral Science s should select classes fr hours 106*, 107*	PHYS com two did	when the property of the prope

GE CORE Electives 5 hours

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Co	urses	18 hours
ART	103	ART 107 – OR – ART 119
ART	104	ART 110
ART	106	ART 111
Other En	hancemer	t Course Options
ART	105	ART 207*
ART	189	ART 210*
ART	205	ART 211*
ART	206*	ART 219*

Suggested Plan of Study

FIRST YEAR

FIRST TEAR	
Fall Semester ART 104 Intro to 3-D Design COLL 101 College Orientation ENGL 101 English Composition I MATH 125 Quantitative Reasoning MUSC 101 – OR – TA 205 Approved GE Core Elective	Hours 3 1 3 3 3 3 16
Spring Semester ART 103 Intro to 2-D Design ART 110 Ceramics I COMM 104 Fundamentals of Speech ENGL 102 English Composition II Approved Science Course	3 3 3 3 3 3-5 17
SECOND YEAR	
Fall Semester ART 106 Drawing I Approved GE Core Elective Approved Humanities Course Approved Science Course Approved Soc & Behavioral Science Course TOTAL	3 2 3 3-5 3 14-16
Spring Semester ART 107 Painting I ART 111 Sculpture I Approved Civics Course Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 3 3 3 3 3 15
TOTAL HOURS REQUIRED	62-64

^{*}Prerequisite required

CROV	VDER FGF	A5500					DEGREE			
COLI	LEGI		Art	an	d D	esigı	<u>n</u>			
eneral Edu	cation Co	ore	Done	Curr	To do)		Done	Curr	То
Orientatio	on	1 hour								
	COLL	101								
Commun		9 hours								Г
	Written	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
Humaniti	es	9 hours	I							П
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
	HIST	101*, 102*								
										Ħ
Mathema	MATH	3 hours 125* (Recommended)				MATH	130*, 135*			
	IVATI	125 (Recommended)			l	IVIAIT	130 , 135		l	
Science		7 hours								
	Lab					Non-La				
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*	l							上
Social an	d Behavi	oral Science 9 hours	T							Т
	Civics (3	B hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				PSYC	101, 211*			
		,				soc	101			
GE Core	Electives	5 hours				I				Т
		it hours from courses listed								-
		not be used as Core electives if								
		er section of this Program of								-
Study.	idei allottik	er section of this Frogram of								
otady.										
Major Co		18 hours								1
	ART	103 Intro to 2D Design (3)					Recommended Courses			1
	ART	104 Intro to 3D Deisgn (3)				ART	105 Topics in Art (1-3)			
	ART	106 Draw ing I (3)				ART	189 Photography (3)			
	ART	107 Painting I (3)				ART	205 Topics in Art (1-3)			
	OR	ART 119 Printmaking I (3)				ART	206 Draw ing II* (3)			
	ART	110 Ceramics I (3)				ART	207 Painting II* (3)			
		· ·				A DT	040 Caramias II* (0)	1		1
	ART	111 Sculpture I (3)				ART	210 Ceramics II* (3)			
	ART	111 Sculpture I (3)				ART ART	210 Ceramics II* (3) 211 Sculpture II* (3) 219 Printmaking II* (3)			

Automotive Technology AAS: Autobody Option

The Autobody option of the Automotive Technology program is aimed preparing students for employment in the field of collision repair or related occupations in the automotive industry. Successful automotive graduates can expect to find employment in the automotive service industry as technicians, parts managers, service managers, or in sales positions. The program is built around nationally recognized standards from the National Institute for Automotive Service Excellence (ASE) provided through the National Automotive Technicians Education Foundation (NATEF). Instructional materials for the core collision repair courses are provided through I-CAR (Inter-Industry Conference on Auto Collision Repair). The program is not currently ASE/NATEF certified, but the core courses cover all of the high-priority ASE/NATEF competencies in Non-Structural Repair, Structural Repair, and Painting/Finishing.

Program of Study

Orientation 1 hour COLL 101 College Orientation (1) Communications 9 hours Written Communications (6 hours) **ENGL** 101* English Composition (3) **ENGL** 102* Advanced English Composition (3) **ENGL** 203* Technical Report Writing (3) Oral Communications (3 hours) COMM 104* Fundamentals of Speech (3) Mathematics 3 hours **BSAD** 121* Business Mathematics (3) **MATH** 104* Technical Mathematics (3) Civics 3 hours HIST 106*. 107* **PLSC** 103* Technical Core 49 hours **AUTO** 114 Auto Fuel Systems (4) **AUTO** 115 Engine Repair (5) **AUTO** 124 Auto Brake Systems (5) **AUTO** 125 Auto Electrical Systems (4) **AUTO** 214 Auto Air Conditioning (4) **AUTO** 224 Computer Engine Cont (4) **AUTO** 225 Auto Suspen and Steer (5) **BSAD** 115 Computer Concepts (3) - OR - BSAD 125 **BSAD** 150 Intro to Business (3) CLRP 102 Auto Body Construction and Sheet Metal (3) CLRP 104 Auto Body Plastics and Composites (3) **CLRP** 202 Auto Body Welding and Structural Straight (3) **CLRP** 204 Auto Body Painting and Refinishing (3)

Suggested Plan of Study

FIRST YEAR

Fall Semester AUTO 114 Fuel Systems	Hours 4
AUTO 115 Engine Repair	5
AUTO 214 Air Conditioning	4
CLRP 102 Auto Body Construction & Sheet Me	
TOTAL	16
Spring Semester	Hours
AUTO 124 Brakes	4
AUTO 125 Electrical Systems	5
AUTO 224 Computer Engine Control	4
AUTO 225 Suspension and Steering	5
CLRP 202 Auto Body Welding & Structural	3
TOTAL	21
SECOND YEAR	
Fall Semester	Hours
BSAD 115 Comp Concepts – OR – BSAD 125	3
CLRP 104 Auto Body Plastics and Composites	3
COLL 101 College Orientation	1
COMM 104 Fundamentals of Speech	3
Approved Mathematics Course	3 1 3 3 3
Approved Written Communications Course	
TOTAL	16
Spring Semester	Hours
BSAD 150 Intro to Business	3
CLRP 204 Auto Body Painting and Refinishing	3 3 3
Approved Civics Course	3
Approved Written Communications Course	3
TOTAL	12
Graduate with Auto Technology AAS	
Total Autobody AAS Hours Required	65

Courses for Certificate	
Additional Courses for AAS Degree	



ASSOCIATE OF APPLIED SCIENCE DEGREE Auto Technology: Autobody Option

			Done	Curr	To do		Done	Curr	To do
Orientation		1 hour							
COLL	101								
Communication		9 hours							
	Communications (6 hours)					Oral Communications (3 hours)			
ENGL	101*					COMM 104*			
ENGL	102*, 104*								
ENGL	203*								
Mathematics		3 hours	1			Г			T T
BSAD	121*	o mouro				MATH 104*			
Berts	121					101			
Civics		3 hours							
HIST	106*					PLSC 103*, 104*			
HIST	107*								
- · · · ·		10.1	1		ı				1
Technical Core		49 hours							
AUTO	114 Auto Fuel Systems (4	4)				BSAD 115 Computer Concepts (3)			
AUTO	115 Engine Repair (5)					OR BSAD 125 Computer Apps (3)			
AUTO	124 Auto Brake Systems	` '				BSAD 150 Intro to Business (3)			
AUTO	125 Auto Electrical Syste					CLRP 102 AB Const & Sheet Met (3)			
AUTO	214 Auto Air Conditioning	, , ,				CLRP 104 AB Plastics & Comps (3)			
AUTO	224 Computer Engine Co					CLRP 202 AB Welding & Struct (3)			
AUTO	225 Auto Suspen and Ste	er (5)				CLRP 204 AB Paint & Refin (3)			

Automotive Technology: Basic Engines Certificate Automotive Technology: Basic Auto Mechanic Certificate Automotive Technology AAS

The Automotive Technology program is aimed at training students in the maintenance and repair of today's modern, complex vehicles. Successful automotive graduates can expect to find employment in the automotive service industry as technicians, parts managers, service managers, or in sales positions.

The Basic Engines certificate prepares students to enter a career in Automotive Technology with a basic skill set that will provide entry level knowledge of automotive engine systems. The students will be introduced to Engine air/fuel requirements, electronic engine management, and electronic fuel injection. This program will cover the accepted methods of service and repair of the engine and related systems, and the emission control systems. Automotive heating and air conditioning principles will be covered during this course of study.

The Basic Auto Mechanic certificate prepares students to enter a career in Automotive Technology with entry level skill set as a basic auto mechanic. The students will be introduced to the basic principles of automotive electrical systems, braking systems, power transmitting units, computerized engine control systems, and diagnostics and repairs of the automotive suspension and steering systems.

Program of Study

Basic Engines Certificate Courses 18 hours **AUTO** 114 Auto Fuel Systems (4) **AUTO** 115 Engine Repair (5) **AUTO** 214 Auto Air Conditioning (4) **AUTO** 215 Auto Emission Cont Sys (5) Basic Auto Mechanic Certificate Courses 21 hours AUTO 124 Auto Brake Systems (4) **AUTO** 125 Auto Electrical Systems (5) **AUTO** 223 Auto Power Train Sys (3) **AUTO** 224 Computer Engine Control (4) **AUTO** 225 Auto Suspension and Steering (5) Orientation 1 hour COLL 101 College Orientation (1) Communications 9 hours Written Communications (6 hours) ENGL 101* ENGL 102* **ENGL** 203* Oral Communications (3 hours) COMM Mathematics 3 hours **BSAD** 121* **MATH** 104* Civics 3 hours HIST 106*, 107* **PLSC** 103* AAS Technical Courses 6 hours **BSAD** 115 Computer Concepts (3) - OR - BSAD 125 **BSAD** 150 Intro to Business (3)

Suggested Plan of Study

FIRST YEAR

Fall Semester	Hours
AUTO 114 Fuel Systems	4
AUTO 115 Engine Repair	5
AUTO 214 Air Conditioning	4
AUTO 215 Emission Control Systems	5
TOTAL	18
Graduate with Basic Engines Certificate	
Spring Semester	Hours
AUTO 124 Brakes	4
AUTO 125 Electrical Systems	5
AUTO 223 Power Trains	3
AUTO 224 Computer Engine Control	4
AUTO 225 Suspension and Steering	5
TOTAL	21
Graduate with Basic Auto Mechanic Certificate	
SECOND YEAR	
Fall Semester	Hours
BSAD 115 Comp Concepts – OR – BSAD 125	3
COLL 101 College Orientation	1 3 3 3
COMM 104 Fundamentals of Speech	3
Approved Mathematics Course	3
Approved Written Communications Course	
TOTAL	13
Spring Semester	Hours
BSAD 150 Intro to Business	3
Approved Civics Course	3 3 9
Approved Written Communications Course	3
TOTAL	9
Graduate with Auto Technology AAS	
Total Engines CERTIFICATE Hours Required	18
Additional Hours Needed for Mechanic Cert	21
Additional Hrs Needed for Auto Tech AAS	22
Total Auto Tech AAS Hours Required	61

Courses for Certificate	
Additional Courses for AAS Degree	



CERTIFICATE Automotive Technology: Basic Engines Done Curr To do

Major Courses 18 hours AUTO 114 Auto Fuel Systems (4) AUTO 115 Engine Repair (5)			Done	Curr	To do	 Done	Curr	To do
AUTO 115 Engine Repair (5)	Major Courses	18 hours				$\overline{}$		
AUTO 214 Auto Air Conditioning (4) AUTO 215 Auto Emission Cont Sys (5)	AUTO AUTO AUTO	115 Engine Repair (5) 214 Auto Air Conditioning (4)						



CERTIFICATE Automotive Technology: Basic Auto Mechanic

		Done	Curr	To do	Done	Curr	To do
Major Courses	39 hours				$\overline{}$	П	П
AUTO	114 Auto Fuel Systems (4)						
AUTO	115 Engine Repair (5)						
AUTO	124 Auto Brake Systems (4)						
AUTO	125 Auto Electrical Systems (5)						
AUTO	214 Auto Air Conditioning (4)						
AUTO	215 Auto Emission Cont Sys (5)						
AUTO	223 Auto Power Train Sys (3)						
AUTO	224 Computer Engine Cont (4)						
AUTO	225 Auto Suspen and Steer (5)						



ASSOCIATE OF APPLIED SCIENCE DEGREE Auto Technology

				Done	Curr	To do			Done	Curr	To do
Orienta	tion		1 hour								
	COLL	101									
							ı				
Commi	ınications		9 hours								
	Written C	Communications (6 hours)						ommunications (3 hours)			
	ENGL	101*					COMM	104*			
	ENGL	102*, 104*									
	ENGL	203*									
							1		-		
Mathen			3 hours								
	BSAD	121*					MATH	104*			<u> </u>
Civics			3 hours						_		_
CIVICS	LUOT	100*	3 Hours				DI 00	400+ 404+			
	HIST	106*					PLSC	103*, 104*			l
	HIST	107*									<u> </u>
Techni	cal Core		45 hours						_		_
rcomm	AUTO	114 Auto Fuel Systems (4					AUTO	223 Auto Power Train Sys (3)			
	AUTO	115 Engine Repair (5))				AUTO	224 Computer Engine Cont (4)			
	AUTO	124 Auto Brake Systems	(4)				AUTO	225 Auto Suspen and Steer (5)			l
		•	` '					' '			l
	AUTO	125 Auto Electrical System	` '			l	BSAD	115 Computer Concepts (3)	l		l
	AUTO AUTO	214 Auto Air Conditioning 215 Auto Emission Cont S	` '				OR BSAD	BSAD 125 Computer Apps (3) 150 Intro to Business (3)			l

Behavior Technician Certificate

Psychology: Autism Option AA

Emphasis in this certificate program will be placed on Applied Behavior Analysis (ABA) theories and techniques to work with individuals diagnosed with Autism and/or developmental disabilities. Students may pursue an AA in Preschool/Paraprofessional, Psychology, General Studies or an AAT. Students are required to successfully complete a portfolio in PSYC 290 to complete this certificate program. Career opportunities for Psychology-Autism Option majors include social work, education and counseling. After completion of a baccalaureate degree, graduates often find themselves working one-on-one with children with autism in the academic or health care setting. An Associate of Arts of Psychology-Autism Option requires completion of the general education core, fifteen hours in psychology, and EDUC 204.

Fall Semester

Program of Study

		•		dy
Certifica	ate Cour	ses		19 hours
COLL	101	College Orienta	ition	
EDUC	231*	Educational Ps	ychology	$(3) \pm$
PSYC	101	General Psycho	ology (3)	
PSYC	203	Autism Spectru	m Disord	ers (3)
PSYC	204	Applied Behavi	or Analys	is for Educators (3)
PSYC	211*	Lifespan Devel		
PSYC	290*	Clinical I – Sup	ervised F	ield Experience (3)
Commu	nication	s		9 hours
		nications (6 ho	ırs)	
ENGL	101*			
ENGL	102*			
		ations (3 hours)	
COMM				
Humani		aalaat alaaaaa fr	om two di	9 hours
(prefixes		select classes in	om two di	ifferent disciplines
		0	LUCT	404* 400*
ART	101, 10		HIST	101*, 102*
ASL	101, 10		MUSC	101
ENGL		22*, 225*	PHIL	101*, 121, 201*, 202*
ENGL		35*, 240*, 245*		101, 102*
FREN	101		TA	205
Mathem				3 hours
	125^, 13	30*, 135*#		
Science		noot the seven h	our roqui	7 hours
Studer	nts must r			rement by selecting
Studer two co	nts must r urses fror	n different discip		
Studer two co	nts must r urses fror with a la	m different discip b		rement by selecting efixes) and at least one
Studer two co- course	nts must rurses from with a la	m different discip b a b	lines (pre	rement by selecting effixes) and at least one
Studer two course BIOL	nts must rurses from with a la	m different discip b ab 0, 120		rement by selecting efixes) and at least one
Studer two course BIOL BIOL	nts must rurses from with a la La 101, 11	m different discip b ab 0, 120 52*	lines (pre	rement by selecting effixes) and at least one
Studer two co- course BIOL BIOL CHEM	nts must r urses from with a la La 101, 11 152*, 25 101, 10	m different discip b a b 0, 120 52* 4, 111*	lines (pre	rement by selecting effixes) and at least one
Studer two cor course BIOL BIOL CHEM GEOL	nts must r urses fror with a la 101, 11 152*, 29 101, 10 115, 21	m different discip b ab 0, 120 52* 4, 111* 0*#	lines (pre	rement by selecting effixes) and at least one
Studer two cor course BIOL BIOL CHEM GEOL PHYS	nts must rurses from with a la La La 101, 11 152*, 25 101, 10 115, 21 101, 19	m different discip b a b 0, 120 52* 4, 111* 0*# 0*	lines (pre	rement by selecting efixes) and at least one Non-Lab 105
Studer two co- course BIOL BIOL CHEM GEOL PHYS	nts must rurses from with a la Lia 101, 11 152*, 25 101, 10 115, 21 101, 19	m different discip b ab 0, 120 52* 4, 111* 0*# 0* vioral Science	PHYS	rement by selecting efixes) and at least one Non-Lab 105 9 hours
Studer two co- course BIOL BIOL CHEM GEOL PHYS Social a Studer	nts must r urses from with a la 101, 11 152*, 29 101, 10 115, 21 101, 19 and Beha	m different discip b ab 0, 120 52* 4, 111* 0*# 0* vioral Science	PHYS	rement by selecting efixes) and at least one Non-Lab 105
Studer two co- course BIOL BIOL CHEM GEOL PHYS Social a Studer (prefixe	nts must r urses from with a la 101, 11 152*, 29 101, 10 115, 21 101, 19 and Beha its shouldes)	m different discip b ab 0, 120 52* 4, 111* 0*# 0* vioral Science	PHYS	rement by selecting efixes) and at least one Non-Lab 105 9 hours different disciplines
Studer two course BIOL BIOL CHEM GEOL PHYS Social as Studer (prefixe Civics (nts must r urses from with a la 101, 11 152*, 29 101, 10 115, 21 101, 19 and Beha tts shouldes) 3 hrs)	m different discip b ab 0, 120 52* 4, 111* 0*# 0* vioral Science I select classes f	PHYS	rement by selecting efixes) and at least one Non-Lab 105 9 hours different disciplines
Studer two course BIOL BIOL CHEM GEOL PHYS Social a Studer (prefixe Civics (HIST	nts must rurses from with a la La 101, 11 152*, 29 101, 10 115, 21 101, 19 1016 should be should	m different discip b ab 0, 120 52* 4, 111* 0*# 0* vioral Science I select classes f	PHYS rom two of	Prime of the series of the ser
Studer two course BIOL BIOL CHEM GEOL PHYS Social as Studer (prefixe Civics (nts must rurses from with a la La 101, 11 152*, 29 101, 10 115, 21 101, 19 1016 should be should	m different discip b ab 0, 120 52* 4, 111* 0*# 0* vioral Science I select classes f	PHYS rom two of ECON GEOG	Prime of the series of the ser
Studer two cor course BIOL BIOL CHEM GEOL PHYS Social a Studer (prefixe Civics (HIST PLSC	nts must rurses from with a la La 101, 11 152*, 29 101, 10 115, 21 101, 19 and Behants should be 106*, 103*	m different disciple ab 0, 120 52* 4, 111* 0* vioral Science I select classes f	PHYS rom two of	Prement by selecting efixes) and at least one Non-Lab 105 9 hours different disciplines Additional 6 Hours 201*, 202* 111 101
Studer two cor course BIOL BIOL CHEM GEOL PHYS Social a Studer (prefixe Civics (HIST PLSC	nts must rurses from with a la La 101, 11 152*, 28 101, 10 115, 21 101, 19 and Behants should les) 106*, 10 103*	m different disciple ab 0, 120 52* 4, 111* 0* vioral Science I select classes f	PHYS rom two of ECON GEOG SOC	Prime of the series of the ser
Studer two cor course BIOL BIOL CHEM GEOL PHYS Social a Studer (prefixe Civics (HIST PLSC GE COP Any add	nts must rurses from with a la La 101, 11 152*, 25 101, 10 115, 21 101, 19 and Behants should be 103* RE Election of Street La 101, 15 103*	m different disciple b ab 0, 120 52* 4, 111* 0* vioral Science I select classes f 07* ves credit hours from	PHYS rom two of ECON GEOG SOC	Prime of the series of the ser
Studer two correct BIOL BIOL CHEM GEOL PHYS Social a Studer (prefixe Civics (HIST PLSC GE COF Any add cannot	nts must rurses from the with a la La 101, 11 152*, 25 101, 10 115, 21 101, 19 and Behants should be shoul	m different disciple b ab 0, 120 52* 4, 111* 0*# 0* vioral Science I select classes f 07* ves credit hours from as Core electives	PHYS rom two of ECON GEOG SOC	Prime of the series of the ser
Studer two correct BIOL BIOL CHEM GEOL PHYS Social a Studer (prefixe Civics (HIST PLSC GE COF Any add cannot	nts must rurses from the with a la La 101, 11 152*, 25 101, 10 115, 21 101, 19 and Behants should be ship be used a this Programment of the should be used a this Programment of the ship programment	m different disciple b ab 0, 120 52* 4, 111* 0* vioral Science I select classes f 07* ves credit hours from	PHYS rom two of ECON GEOG SOC	Prime of the series of the ser

Suggested Plan of Study

FIRST YEAR

Hours

17

COLL 101	College Orientation	1
EDUC 125	Introduction to Education	3
ENGL 101	English Composition I (for AA)	3
PSYC 101	General Psychology	3
PSYC 203	Autism Spec. Disorders	3
PSYC 204	Applied Behavior Analysis	3
	TOTAL	16
Spring Seme	ster	Hours
	s <i>ter</i> Educational Psychology	Hours 3
EDUC 231		
EDUC 231 ENGL 102	Educational Psychology	3
EDUC 231 ENGL 102	Educational Psychology English Composition II (for AA) Lifespan Development	3

SECOND YEAR

TOTAL

Approved Humanities Course (for AA)

Graduate with Behavior Technician Certificate

SECOND YEAR	
Fall Semester	Hours
MATH 135 Algebra for Calculus	3
Approved Civics Course	3
Approved GE Core Elective	3
Approved Science Course	3-5
Approved Social & Behavioral Science Course	3
TOTAL	15-17
Spring Semester	Hours
COMM 104 Fundamentals of Speech	3
Approved Humanities Course	3
Approved Humanities Course	3
Approved Science Course	3-5
Approved Social & Behavioral Science Course	3
TOTAL	15-17
	15-17 63-67

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

EDUC 125

Courses for Certificate	
Additional Courses for AAS Degree	

^{# -} Preferred class for this degree option

^{± -} Not required for AA degree



CERTIFICATEBehavior Technician Certificate

		Done	Curr	To do	Done	Curr	To do
Orientation	1 hour						
COLL	101 College Orientation						
** *	40.1						
Major Courses	18 hours						
EDUC	231 Educational Psychology* (3)						
PSYC	101 General Psychology (3)						
PSYC	203 Autism Spectrum Disorders (3)						
PSYC	204 ABA for Educators (3)						
PSYC	211 Lifespan Development* (3)						
PSYC	290 Clinical I - Supervised Field Exp* (3)						

CROW COLI	EGE				DEGREE Option			
eneral Edu	cation C		ology: A		Option	Done	Curr	То
Orientatio		1 hour	Done Curri	0 00		Done	Curr	10
Orientatio	COLL	101						
Communi	ications	9 hours				Ī		
Commun	_	n Communications (6 hours)		Oral C	communications (3 hours)			
	ENGL	101*		COMM				
	ENGL	102*, 104*						
Humanitie	26	9 hours						
Trainamen	ART	101, 106		HIST	101*, 102*			
	ASL	101, 102*		MUSC				
	ENGL	109*, 222*, 225*		PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*			101, 102*			
	FREN	101		TA	205			
Mathema	tion	3 hours						
wautema		135* (Recommended)		MATH	125*, 130*			
	100 (111	,			120, 100			
Science		7 hours						
	Lab	404 440 400		Non-La				
	BIOL	101, 110, 120 152*, 252*	-	PHYS	105			
		101, 104, 111*						
		115, 210*						
		101, 190*						
		ioral Science 9 hours (3 hours)						
Social and		(0 11041 5)			201*, 202*			_
Social and		106*		ECON				_
Social and	HIST	106* 107*						
Social and	HIST	107*		GEOG	111			
Social and	HIST			GEOG				
	HIST HIST PLSC	107* 103*, 104*		GEOG PSYC	111 101, 211*			
GE Core I	HIST HIST PLSC	107* 103*, 104* 5 hours		GEOG PSYC	111 101, 211*			
GE Core I	HIST HIST PLSC PLSC	107* 103*, 104* 5 hours dit hours from courses listed above.		GEOG PSYC	111 101, 211*			
GE Core I	HIST HIST PLSC Elective and 5 crea	107* 103*, 104* 5 hours dit hours from courses listed above. used as Core electives if counted		GEOG PSYC	111 101, 211*			
GE Core I	HIST HIST PLSC Elective and 5 crea	107* 103*, 104* 5 hours dit hours from courses listed above.		GEOG PSYC	111 101, 211*			
GE Core I Any additio Courses ca under anoth	HIST HIST PLSC Flective anal 5 creannot be under section	107* 103*, 104* 5 hours dit hours from courses listed above used as Core electives if counted on of this Program of Study.		GEOG PSYC	111 101, 211*			
GE Core I	HIST HIST PLSC Flective anal 5 crea annot be under section	107* 103*, 104* 5 hours dit hours from courses listed above. used as Core electives if counted in of this Program of Study. 18 hours		GEOG PSYC SOC	111 101, 211* 101			
GE Core I Any additio Courses ca under anoth	HIST HIST PLSC Flective anal 5 crea annot be under section urses EDUC	107* 103*, 104* 5 hours dit hours from courses listed above used as Core electives if counted on of this Program of Study.		GEOG PSYC SOC PSYC	111 101, 211*			

Biology AA

Biologists are teachers in high schools, colleges, and universities. They also work as conservationists, nutritionists, laboratory technicians, foresters, rangers, sanitarians, marine biologists, and geneticists. Their working environment has as much variation as any career field: classrooms, laboratories, forests, national or state parks, state or municipal offices, agricultural research stations, oceanographic vessels, museums, zoos, greenhouses, medical laboratories, hospitals, deserts, tropical rain forests, or even the cold of the arctic regions. Biologically related jobs are predicted to increase much faster than most of the job market in the future. With recent advances in genetic research, many new doors are opening for biologists in such areas as medicine, synthesizing scarce biological molecules, and finding new food and energy sources.

Program of Study

Orientati	on		1 hour
COLL	101		
Commun	ications		9 hours
Writter	n Communications (6 ho	urs)	
ENGL	101*		
ENGL	102*		
Oral Co	ommunications (3 hours)	
COMM	104*		
Humanit	ies		9 hours
Studen	ts should select classes fr	om two d	lifferent disciplines
(prefixe	s)		
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathema	tics		3 hours
NAATII	405411		
MATH	135*#		
Science	135^#		9 hours
Science	ts must meet the seven ho	our requir	
Science Studen			rement by selecting two
Science Studen courses	ts must meet the seven ho		rement by selecting two
Science Studen courses	ts must meet the seven ho s from different disciplines with a lab <i>Lab</i>		rement by selecting two
Science Studen courses course	ts must meet the seven hose from different disciplines with a lab Lab 101 or 110		rement by selecting two
Science Studen courses course BIOL CHEM	ts must meet the seven hos from different disciplines with a lab Lab 101 or 110 111*		rement by selecting two
Science Studen courses course BIOL CHEM Social ar	ts must meet the seven hos from different disciplines with a lab Lab 101 or 110 111* ad Behavioral Science	(prefixes	rement by selecting two s) and at least one 9 hours
Science Studen courses course BIOL CHEM Social ar Studen	ts must meet the seven hose from different disciplines with a lab Lab 101 or 110 111* ad Behavioral Science ts should select classes fr	(prefixes	rement by selecting two s) and at least one 9 hours
Science Studen courses course BIOL CHEM Social ar Studen (prefixe	ts must meet the seven hose from different disciplines with a lab Lab 101 or 110 111* ad Behavioral Science ts should select classes from the sele	(prefixes	rement by selecting two s) and at least one 9 hours
Science Studen courses course BIOL CHEM Social ar Studen (prefixe Civics	ts must meet the seven hose from different disciplines with a lab Lab 101 or 110 111* ad Behavioral Science ts should select classes from (3) (3) hours)	(prefixes	rement by selecting two s) and at least one 9 hours different disciplines
Science Studen courses course BIOL CHEM Social ar Studen (prefixes HIST	ts must meet the seven hose from different disciplines with a lab Lab 101 or 110 111* Ind Behavioral Science ts should select classes from (3 hours) 106*, 107*	om two d	ement by selecting two s) and at least one 9 hours different disciplines
Science Studen courses course BIOL CHEM Social ar Studen (prefixes Civics HIST	ts must meet the seven he from different disciplines with a lab Lab 101 or 110 111* Id Behavioral Science ts should select classes fres) (3 hours) 106*, 107*	om two d	9 hours different disciplines
Science Studen courses course BIOL CHEM Social ar Studen (prefixes Civics HIST	ts must meet the seven hose from different disciplines with a lab Lab 101 or 110 111* Ind Behavioral Science ts should select classes from (3 hours) 106*, 107*	om two d	ement by selecting two s) and at least one 9 hours different disciplines
Science Studen courses course BIOL CHEM Social ar Studen (prefixes Civics HIST PLSC	ts must meet the seven hose from different disciplines with a lab Lab 101 or 110 111* Ind Behavioral Science ts should select classes from (3 hours) 106*, 107*	om two d ECON GEOG PSYC	9 hours different disciplines 201*, 202* 111 101, 211*
Science Studen courses course BIOL CHEM Social ar Studen (prefixe Civics HIST PLSC	ts must meet the seven has from different disciplines with a lab Lab 101 or 110 111* ad Behavioral Science ts should select classes from the selec	om two d ECON GEOG PSYC SOC	9 hours different disciplines 201*, 202* 111 101, 211* 101 5 hours

CHEM 201* MATH 160* CHEM 221*

- Preferred class for this degree option

Major Courses

120*

220*

Approved Electives

BIOL

BIOL

hours elective requirement. Courses cannot be used as Core electives if counted under another section of this Program of Study.

Suggested Plan of Study

FIRST YEAR

Fall Semester BIOL 101 Biology COLL 101 College Orientation ENGL 101 English Composition MATH 135 Algebra for Calculus Approved Soc & Behavioral Science Course TOTAL	Hours 4 1 3 3 1 4
Spring Semester BIOL 120 – OR – Approved Elective ENGL 102 Advanced English Comp Approved Civics Course Approved Humanities Course TOTAL	Hours 5 3 3 14
SECOND YEAR	
Fall Semester BIOL 110 General Zoology CHEM 111 General Chemistry I Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 5 5 3 16
Spring Semester BIOL 120 – OR – Approved Elective CHEM 112 General Chemistry II COMM 104 Fundamentals of Speech Approved Humanities Course TOTAL	Hours 5 5 3 3 16
TOTAL HOURS REQUIRED	60

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

10 hours

5 hours

CHEM 112*

MATH 150*

CROWI	DER	ASSOCI	ATE	OF	AR	TSE	DEGREE			
COLLE	GE			Bio	logy	7				
General Educa	ation Cor	'e			To do			Done	Curr	To do
Orientation		1 hour								
	COLL	101								
Communica	tions	9 hours	1					Т		
Communica		Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*				COIVIIVI	10-7			
							1			
Humanities		9 hours								
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathematic	s	3 hours				Math E	lectives for GE Core	Т		
	MATH	135* (Recommended)				MATH				
Science		9 hours								
	Lab	101 (D : 1) 110t								
	BIOL	101 (Required) or 110* 111* (Required)								
	CHEIVI	111 (Required)								
Social and B	Behaviora	al Science 9 hours								
	Civics (3	3 hours)								
	HIST	106*					201*, 202*			
	HIST	107*					111			
	PLSC	103*, 104*				PSYC	101, 211*			
						SOC	101			
GE Core Ele	ctives	5 hours						T		
22 00.0 210		5 ou ro				BIOL	110 General Zoology (5)			
							(-)			
Maiarro		40.6		<u> </u>		A m.e	and Classican Charma			
Major Cours	BIOL	10 hours 120 Gen Botany* (5)				<i>Appro</i> v BIOL	ved Electives 5 hours 220 Gen Microbiology* (5)			
	CHEM	120 Gen Bolany" (5) 112 General Chem II* (5)				CHEM	201 Quant. Analysis* (5)			
		112 General Glefffill (3)				CHEM	221 Organic & Biochemistry* (5)			
						MATH	150 Calculus 1 Part I* (2)			
						MATH	160 Calculus I Part II* (3)			

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ASSOCIATE OF ARTS DEGREE

Business Administration AA

Business Administration at Crowder prepares the business-oriented student for transfer to a four-year business, marketing, accounting, economics or finance program. Business Administration provides a core of general education courses plus specific business courses equivalent to those found in any first and second year business program. The following program is suggested for students intending to transfer following graduation. For best transfer, contact with the senior institution should be made as early in the program as possible.

*All students pursing this degree must take and pass the approved Technical Skills Assessment (TSA) prior to graduating. A fee will be charged.

Program of Study

Orientatio	on		1 hour
COLL			
Commun	ications		9 hours
Written	Communications (6 hou	rs)	
ENGL	101*		
ENGL	102*		
	ommunications (3 hours)		
COMM			
Humaniti		4114	9 hours
	s should select classes fro	m two air	Terent disciplines
(prefixe:	5) 101, 106	HIST	101*, 102*
ASL	101, 100	MUSC	101 , 102
	101, 102	PHIL	
		SPAN	
ENGL FREN	101	TA	101, 102* 205
Mathema		IA	3 hours
MATH	125*#, 130*, 135*#		3 nours
Science	120 11, 100 , 100 11		7 hours
	s must meet the seven ho	ır require	
	from different disciplines (•	, ,
with a la	•	(6.0.00)	
Lab		Non-La	nb
BIOL	101, 110, 120	PHYS	105
BIOL	152*, 252*		
CHEM	101, 104, 111*		
GEOL	115, 210*		
PHYS	101, 190*		
	d Behavioral Science		9 hours
	s should select classes fro	m two dif	ferent disciplines
(prefixe	,		
,	3 hours)	FOON	004*/5 : 1)
HIST PLSC	106*, 107* 103*	ECON PSYC	201* (Required) 101#
		PSTC	
	E Electives 2—Required		5 hours
	should meet the five-hour r	eguireme	ent by selecting from
	2 and any other courses lis	•	, ,
	I, or SOC 101; however co		
one categ	ory and not be counted un	der two c	ategories.
Major Co	urses		12 hours

BSAD

BSAD

Courses must be approved from the Business Department. Prefix-

125

150

6 hours

es will be ACCT, BMGT, or BSAD. # - Preferred class for this degree option

ACCT 201

202*

Approved Electives

ACCT

Suggested Plan of Study

FIRST YEAR

1110112711	
Fall Semester BSAD 150 Introduction to Business BSAD 125 Computer Applications COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition I Approved Mathematics Course TOTAL	Hours 3 3 1 3 3 3 16
Spring Semester ENGL 102 English Composition II PSYC 101 General Psychology Approved Business Elective Approved Civics Course Approved Science Course TOTAL	Hours 3 3 3 3 3 1 7 17
SECOND YEAR	
Fall Semester ACCT 201 Principles of Accounting I ECON 201 Principles of Macroeconomics* Approved GE Core Elective Approved Humanities Course Approved Science Course TOTAL	Hours 3 3 2-3 3 3-5 14-15
Spring Semester ACCT 202 Principles of Accounting II ECON 202 Principles of Microeconomics* Approved Business Elective Approved Humanities Course Approved Humanities Course TOTAL	Hours 3 3 3 3 3 15
TOTAL HOURS REQUIRED	62-63

^{*}Prerequisite required

		Busir	_	_	_				_	
	cation Cor		Done	Curr	To do)		Done	Curr	То
Orientatio		1 hour								
	COLL	101		J						<u> </u>
Commun	ications	9 hours								
	Written	Communications (6 hours)				Oral C	Communications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
Humanitie	25	9 hours			Т					П
, rainaine	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC				-
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			-
	ENGL	230*, 235*, 240*, 245*		·			101, 121, 201, 202			-
			ļ							-
	FREN	101		<u> </u>		TA	205			_
Mathema	tics	3 hours								
	MATH	125* or 135* (Recommended)				MATH	130*			L
Science		7 hours		Т	T			$\overline{}$		П
00101100	Lab	- Thouse				Non-L	ah			
	BIOL	101, 110, 120				PHYS				
	BIOL	152*, 252*				11110	100			-
	CHEM									
		101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*		1						
Social an	d Behavior	ral Science 9 hours								
	Civics (3	hours)								
	HIST	106*					201* (Required)			_
	HIST	107*				PSYC	101 (Recommended)			_
	PLSC	103*, 104*								_
										_
										_
GE Core	Electives	5 hours								
		hour requirement by selecting from				ECON	202* (Required)			
		ourses listed above or from GEOG 111, ever, courses cannot be used as Core								
,	,	nother section of this Program of								
Study.										
Major Co	urses	12 hours			Ī					
4,5, 50	ACCT	201 Prin of Account I (3)				Appro	ved Electives 6 hours			
	ACCT	202 Prin of Account II* (3)					es must be approved and from the			
	BSAD	125 Computer Apps (3)					ness Department. Prefixes will be			
	BSAD	150 Intro to Business (3)					T, BMGT, or BSAD.			
	23,13			1		,,,,,,	.,			
	1			1	1					_

Programs of Study 100 V1.04 **2019-20**

Business: Accounting Option AAS

This program is designed for students who seek immediate employment in the field of accounting and for those presently employed in accounting careers and desiring advancement. Crowder's Associate of Applied Science in Accounting degree gives students an advantage in the business world by training them in the latest accounting and computer techniques. Students learn how to solve problems using today's technology. This program focuses on the principles, procedures, and theories of managing and preparing financial records.

*All students pursing this degree must take and pass the approved Technical Skills Assessment (TSA) prior to graduating. A fee will be charged.

Program of Study

Orientation			1 hour			
COLL 10	1					
Communications 9 hours						
Written Co	mmunications (6 h	ours)				
ENGL 10	1*					
ENGL 10	2*					
	nunications (3 hou	rs)				
COMM 10						
Mathematics MATH 12		N 4 A T 1 1	3 hours			
	ວ"	MATH				
Civics	C* 107*		3 hours			
HIST 100 PLSC 100						
Business Co	ore		23 hours			
ACCT 20		BSAD	130* (3)			
ACCT 20	2* (3)	BSAD	218* (3)			
BSAD 10	3 (2)	BSAD	230 (3)			
BSAD 12	5 (3)	ECON	201* (3)			
Accounting	Core		20 hours			
ACCT 16	0 (3)		290 (2)			
ACCT 40	F* (2)		150 (3) OR			
	5* (3)		175 (3)			
ACCT 24	- (-)	ECON	202* (3)			
ACCT 25	0* (3)					
Electives			3 hours			
Electives can	be taken from ACC	T, BSAD	D, or BMGT			

Suggested Plan of Study

FIRST YEAR

ACCT 201 Principles of Accounting I BSAD 125 Computer Applications COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition I Approved Mathematics Course	3 3 1 3 3 3 3
TOTAL	• •
Spring Semester ACCT 202 Principles of Accounting II BSAD 130 Business Communications BSAD 150 – OR – BMGT 175 BSAD 218 Advanced Excel (Spring only) ENGL 102 English Composition II TOTAL	3 3 3 3 3 3 15
Fall Semester ACCT 165 QuickBooks (Fall only) ACCT 245 Tax Accounting (Fall only) ECON 201 Principles of Macroeconomics Approved Business Elective Approved Civics Course	Hours 3 3 3 3 3 15
Spring Semester ACCT 160 Payroll Accounting (Spring only) ACCT 250 Certified Bookkeeper Rev ACCT 290 Accounting Internship BSAD 103 Professional Development BSAD 230 Business Law ECON 202 Principles of Microeconomics TOTAL	3 3 2 2 2 3 3
TOTAL HOURS REQUIRED	62

	LLEGE	Busin	ess	s: A	\cc	ounti	ng Option			
				Curr				Done	Curr	To d
Orienta	tion	1 hour								
	COLL	101								
Commu	ınications	9 hours		П				Т		
	Written	Communications (6 hours)				Oral Co	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
Mathen	natics	3 hours		П				Т		
	MATH	125*				MATH	135*			
Civics		3 hours								
00	HIST	106*				PLSC	103*, 104*			
	HIST	107*								
Busines	s Core	23 hours					Accounting Core 20 hours			
	ACCT	201 Prin of Accounting I (3)					+ Electives 3 hours			
	ACCT	202 Prin of Accounting II* (3)				ACCT	160 Payroll Accounting (3)			
	BSAD	103 Professional Dev. (2)				ACCT	165 QuickBooks* (3)			
	BSAD	125 Computer Applications (3)				ACCT	245 Tax Accounting (3)			
	BSAD	130 Business Comm.* (3)				ACCT	250 Certified Bookkeeper Review * (3)			
	BSAD	218 Spreadsheets* (3)				ACCT	290 Accounting Internship (2)			
	BSAD	230 Business Law (3)				BSAD	150 Intro to Business (3) OR BMGT 175 (3))		
	ECON	201 Principles of Macro* (3)				ECON	202 Principles of Micro* (3)			
										_
	BSAD 10	3 and ACCT 290 should be								
	taken in	the last semester.					Electives 3 hours			
						ECON 2	s can be taken from ACCT, BSAD, BMGT, o 02	r		
*P rerequie	ite requireme	ent					** Prerequisite/co-requisite requirement	1		

 Programs of Study
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 2019-20

Business: Management Option AAS

This program is designed to help students develop the business prowess and managerial "know-how" to become valuable assets to any company. Crowder's Associate of Applied Science in Management degree offers specialized instruction in accounting and finance, business law & economics, management, marketing and human resources. Students learn how to develop vital skills for administration and management including problem-solving, strategy & planning, communication & marketing, interpersonal relations and technology. Special emphasis is placed on preparing students for the challenges of management positions through active learning techniques, practical application of research methods, team projects, presentations and real-world internships.

*All students pursing this degree must take and pass the approved Technical Skills Assessment (TSA) prior to graduating. A fee will be charged.

Program of Study

Orientation	1		1 hour
COLL	101		
Communic	ations		9 hours
Written	Communication	ons (6 hours)	
ENGL	101* or 102*		
ENGL	203*		
	mmunications	(3 hours)	
COMM	104*		
<i>Mathemati</i> BSAD	cs 121*		3 hours
Civics	121		3 hours
HIST	106*, 107*		3 nours
PLSC	100 , 107		
Business (Core		23 hours
ACCT	201 (3)		
ACCT	202* (3)		
BSAD	103 (2)		
BSAD	125 (3)		
BSAD	130* (3)		
BSAD	218* (3)		
BSAD	230 (3)		
ECON	201* (3)		
	` ,		
Manageme	ent Core		23 hours
BMGT	115 (3)	BSAD	108 (3)
BMGT		BSAD	150 (3)
BMGT	` '		` '
BMGT	, ,		
BMGT	285* (3)		
BMGT	290 (2)		

^{*}Prerequisite requirement

Suggested Plan of Study

• • • • • • • • • • • • • • • • • • • •	
FIRST YEAR	
Fall Semester	Hours
BMGT 115 Customer Service	3
BSAD 121 Business Math	3
BSAD 125 Computer Applications	
RSAD 150 Introduction to Rusiness	3 3
BSAD 150 Introduction to Business COLL 101 College Orientation	1
ENGL 101 English Composition I	3
TOTAL	16
TOTAL	10
Spring Semester	Hours
BMGT 175 Management	3
BSAD 218 Advanced Excel (Spring only)	3 3 3
BSAD 230 Business Law	3
COMM 104 Fundamentals of Speech	3
ENGL 203 Technical Report Writing OR ENGL	
TOTAL	15
101/12	
SECOND YEAR	
Fall Semester	Hours
ACCT 201 Principles of Accounting I	3
BMGT 200 Marketing	3
BMGT 223 Business Ethics (Fall Only)	3 3 3 3
BSAD 108 Personal Finance	3
Approved Civics Course	3
TOTAL	15
TOTAL	10
Spring Semester	Hours
ACCT 202 Principles of Accounting II	3
BMGT 285 Human Res Mgmt (Spring only)	3
BMGT 290 Management Internship	2
BSAD 103 Professional Development	2
BSAD 130 Business Communications	3
ECON 201 Principles of Macroeconomics	3 2 2 3 3
TOTAL	16
TOTAL HOURS REQUIRED	62

Business: Management Option											
			Done	Curr	To Do			Done	Curr	To D	
Orientati	on	1 hour									
	COLL	101									
Commun	nications	9 hours	П								
	Written	Communications (6 hours)				Oral C	ommunications (3 hours)				
	ENGL	101*				COMM					
	ENGL	203*									
Mathema	atics	3 hours		1	1			1			
	BSAD	121*									
Oficial		2.65					ĭ				
Civics	HIST	3 hours				PLSC	103*, 104*				
	HIST	107*				FLSC	103 , 104				
	TIIOT	107									
Business	Core	23 Hours				Manag	gement Core 23 Hours				
	ACCT	201 Principles of Accounting I (3)									
	ACCT	202 Principles of Acctg II* (3)				BMGT	115 Customer Service (3)		ļ	J	
	BSAD	103 Professional Dev (2)				BMGT	175 Management (3)				
	BSAD	125 Computer Apps (3)				BMGT	200 Marketing (3)				
	BSAD	130 Bus Communications* (3)				BMGT	223 Business Ethics (3)				
	BSAD	218 Spreadsheets* (3)				BMGT	285 Human Resource Mgmt* (3)				
	BSAD	230 Business Law (3)				BMGT	290 Internship (2)				
	ECON	201 Prin of Microeconomics (3)				BSAD	108 Personal Finance (3)				
		The state of the s		1	I	BSAD	150 Intro to Business (3)	1		1	

Certified Medical Assistant Certificate Certified Medical Assistant AAS

The Certified Medical Assisting AAS degree provides students with the broad range of health, science, and office skills helpful for initial placement and career advancement in front and back office in a wide range of medical facilities such as in hospitals, doctor offices, and clinics. At the completion of the program, the student will sit for the Certified Medical Assistant National Exam. Students must pass a drug test and background check. Must be 18 years old to complete this program.

This certification program prepares students for employment as a Certified Medical Assistant with the skills needed for placement in health care setting such as a hospital, clinic, or doctor office; and the students have a career path into the Certified Medical Assistant AAS.

Program of Study

Certificate Courses 33 hours CNA 106 Phlebotomy (3) COLL 101 College Orientation (1) MFDA 101 Introduction to Medical Assisting (3) **MEDA** 102* Mathematical App & Med Administration (2) **MEDA** 103* Medical Assisting Science I (4) **MEDA** 104* Clinical Medical Assisting I (2) **MEDA** 105* Administrative Medical Assisting I (2) MEDA 203* Medical Assisting Science II (4) MEDA 204* Clinical Medical Assisting II (3) **MEDA** 205* Administrative Medical Assisting II (3) MEDA 206* Medical Assisting Internship (5) **MEDA** Medical Assisting Critique (1) 207* Communications 9 hours Written Communications (6 hours) ENGL 101* **ENGL** 102* **ENGL** 203* Oral Communications (3 hours) COMM 104* Mathematics 3 hours MATH 125*, 130*, 135*# Science 4 hours CHEM 104 Social and Behavioral Science 6 hours Additional 3 hours Civics (3 hours) HIST 106*, 107* PSYC 101 **PLSC** 103* Certified Nurse Assistant 3 hours **CNA** 107 EKG (3) Certified Medical Assistant 9 hours **MEDA** 208* Advanced Clinical Medical Assisting (2) 209* Coding for the Physician's Office (5) MFDA 210* Medical Office Management (2) **MEDA**

Suggested Plan of Study

FIRST YEAR	
Fall Semester	Hours
COLL 101 College Orientation	1
CNA 106 Phlebotomy	3
MEDA 101 Intro to Medical Assisting	3
MEDA 102 Math Application & Med Administration MEDA 103 Medical Assisting Science I	on 2 4
MEDA 103 Medical Assisting Science I MEDA 104 Clinical Medical Assisting I	
MEDA 104 Cliffical Medical Assisting I MEDA 105 Administrative Medical Assisting I	2 2
TOTAL	17
Spring Semester	Hours
MEDA 203 Medical Assisting Science II	4
MEDA 204 Clinical Medical Assisting II	3
MEDA 205 Administrative Medical Assisting II	3
MEDA 206 Medical Assisting Internship	5
MEDA 207 Medical Assisting Critique	1
TOTAL Graduate with Certified Medical Assistant Certific	16
Graduate with Certified Medical Assistant Certific	Jale
SECOND YEAR	
Fall Semester	Hours
CHEM 104 Chemistry for Health Sciences COMM 104 Fundamentals of Speech	4 3
PSYC 101 General Psychology	3
Approved Mathematics Course	3
Approved Written Communications Course	3
TOTAL	16
Spring Semester	Hours
CNA 107 EKG	3
HIST 106 US History	3
MEDA 208 Adv Clinical Medical Assisting	2
MEDA 209 Coding for the Physician's Office MEDA 210 Medical Office Management	2 5 2 3
Approved Written Communications Course	3
TOTAL	18
Graduate with Certified Medical Assistant AAS	
Total CERTIFICATE Hours Required	33
Additional Hours Needed for AAS	34
Total AAS Hours Required	67

^{*}Prerequisite requirement



CERTIFICATE Certified Medical Assistant

Students must earn 33 hours for this certificate.

	Done Curr To do
Orientation	1 hour
COLL	101 College Orientation
On difficulty and American	
Certified Nurse Assistant	3 hours
CNA	106 Phlebotomy (3)
Approved Electives	29 hours
MEDA	101 Introduction to Medical Assisting (3)
MEDA	102 Math Application & Med Administration* (2)
MEDA	103 Medical Assisting Science I* (4)
MEDA	104 Clinical Medical Assisting I* (2)
MEDA	105 Administrative Medical Assisting I* (2)
MEDA	203 Medical Assisting Science II* (4)
MEDA	204 Clinical Medical Assisting II* (3)
MEDA	205 Administrative Medical Assisting II* (3)
MEDA	206 Medical Assisting Internship* (5)
MEDA	207 Medical Assisting Critique* (1)

	MEDA 207 Medical Assisting Critique* (1)		D 01	\I I \!	OF DEODEE			
CROWDE								
	Certified				ant			
		Done Cur	r To do			Done	Curr	То
Orientation	1 hour							
COLL	101							
Communication								
Written	Communications (3 hours)				ommunications (3 hours)			
ENGL	101*			COMM	104*			_
ENGL	102*, 104*							
ENGL	203*							
Mathematics	3 hours							
MATH	125*		OR	MATH	130*			
MATH	135* (Recommended)							
Civics	3 hours		Т			Т		
HIST	106*			PLSC	103*, 104*			
HIST	107*				,			1
Social & Behav	viewal Spiemana 2 house							$\overline{}$
PSYC	ioral Sciences 3 hours							
Science	4 hours							
CHEM	104 Chemistry for Health Sciences (4)							
Certified Nurse	Assistant 6 hours							
CNA	106 Phlebotomy (3)							
CNA	107 EKG (3)							
Certified Medic	al Assistant 38 hours							
MEDA	101 Intro to Medical Assisting* (3)			MEDA	208 Adv Clinical Med Asst* (2)			
MEDA	102 Math App & Med Admin* (2)			MEDA	209 Coding for Phys Office* (5)			
MEDA	103 Medical Assisting Science I* (4)			MEDA	210 Med Office Mgmt* (2)			
MEDA	104 Clinical Medical Assisting* (2)				,			
MEDA	105 Admin Medical Assisting I* (2)							
MEDA	203 Medical Assisting Science II* (4)							
MEDA	204 Clinical Medical Assisting II* (3)							
MEDA	205 Admin Medical Assisting II* (3)							
1.4ED 4	206 Medical Assisting Internship* (5)							
MEDA	200 Medical Assisting internship (3)							

CERTIFICATE

Certified Nurse Assistant Certificate

This certificate program prepares students for employment as Pharmacy Technicians with medical and office skills helpful for initial placement in pharmacy settings and other related occupations; and students have a career path into the Health Care Specialist AAS. Basic communication, computer/Internet skills, ethics and core courses in pharmacy will be completed.

Program of Study

CNA Majo	r Courses	8 hours
CNA	101 CNA Techniques (5)	
CNA	102 CNA Clinical Experience (2)	
COLL	101 College Orientation (1)	
CNA Appr	oved Electives	9 or 10 hours
CNA	103 Home Health Aide AND CNA 104 Home Health Aide Clin	ical (4)
CNA	106 Phlebotomy (3)	
CNA	107 EKG (3)	
CNA	110 Restorative Nurse Assistant A CNA 111 Restorative Nurse Assi	
EMR	101 Emergency Medical Respond	ler (3)
OA	215 Medical Terminology (3)	

^{*}Prerequisite requirement

Suggested Plan of Study

FIRST YEAR									
Fall Semester		Hours							
CNA 101 CNA Techr	niques	5							
CNA 102 CNA Clinica	al Experience	2							
COLL 101 College Ori	entation	1							
Approved CNA Electives	S	9-10							
	TOTAL	17-18							
т	17-18								



CERTIFICATE Certified Nurse Assistant

Done Curr To do

Orientation	1 hour			
COLL	101 College Orientation		 	
Major Courses	7 hours	Т		I
CNA	101 CNA Techniques (5)			
CNA	102 CNA Clinical Experiences (2)			
Annuariad Flactives	0 au 40 haure			· •
Approved Electives	9 or 10 hours			
CNA	103 Home Health Aide		 	
AND	CNA 104 Home Health Aide Clinical (4)			
CNA	106 Phlebotomy (3)			
CNA	107 EKG (3)			
CNA	110 Restorative Nurse Asst			
AND	CNA 111 Restorative Nurse Clinical (3)			
EMR	101 Emergency Medical Responder (3)			
	215 Medical Terminology (3)			

Chemistry AA

Instruction in the Physical Sciences is offered in the areas of chemistry, physics, geology and astronomy as the foundation for baccalaureate and graduate studies in these and related sciences at a university or four-year college. Physical Science students find employment in industrial research and development, government regulatory agencies, or secondary and post-secondary education. The suggested curriculum that follows assumes a mathematics background that will permit an enrollment in the calculus series as a freshman. If pre-calculus classes are needed, more than four semesters are necessary to complete this program.

Program of Study

Orientati	on		1 hour
COLL	101		
Commun	nications		9 hours
Writter	n Communications (6 hou	ırs)	
ENGL	101*		
ENGL	102*		
Oral Co	ommunications (3 hours))	
COMM	104*		
Humaniti	ies		9 hours
Studen	ts should select classes fro	om two dif	ferent disciplines
(prefixe	es)		
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathema			5 hours
MATH	150* & 160*		
Science			10 hours
Studen	ts must meet the seven ho	ur require	ement by selecting two
	s from different disciplines	(prefixes)	and at least one course
with a l	ab		
	Lab		Non-Lab
BIOL	· · ·	PHYS	105
CHEM	(- 1)		
PHYS	190* (Required)		
	nd Behavioral Science	6114	9 hours
	ts should select classes fro	om two ali	terent disciplines
(prefixe	,		
HIST	(3 hours) 106*, 107*	ECON	201*, 202*
PLSC	,	GEOG	•
FLSC	103	PSYC	101, 211*
		SOC	101, 211
GE COP	E Electives	300	5 hours
	e Electives O or BIOL 101 should be	used to s	
	ctive requirement. Courses		•
	l under another section of		
			15 hours
Major Co CHEM		PHYS	
_	201*	11113	210
	commended Courses		
CHEM		COMP	111*
OI ILIVI	·		
CHEM	221*	MATH	202*

- Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester CHEM 111 General Chemistry I COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition I MATH 150 Calculus I, Part 1 Approved Civics Course	Hours 5 1 3 3 2 3 17
Spring Semester CHEM 112 General Chemistry II ENGL 102 English Composition II MATH 160 Calculus I, Part 2 PHYS 190 General Physics I TOTAL	5 3 3 5 16
SECOND YEAR	
Fall Semester MATH 201 Calculus II PHYS 210 General Physics II Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	5 5 3 3 16
Spring Semester BIOL 101 General Biology Approved Humanities Course Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 5 3 3 14
TOTAL HOURS REQUIRED	63

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

CROWDER COLLEGE Chemistry										
									eneral Educ	cation Co
Orientatio	n	1 hour	•							
	COLL	101								
Communi	cations	9 hours	. 1	Т					1	
		Communications (6 hours)				Oral C	communications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*								
Humanitie	25	9 hours		Т						
77477477	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC				
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				•	101, 102*			
	FREN	101				TA	205			
Mathema	tics	5 hours		$\overline{}$						
iii diii diii di	MATH	150* & 160*					130*			
Science		10 hours	.	T						
Science	Lab	To nours	'			Non-La	ah			
	BIOL	101#, 110, 120					105			
	CHEM	101, 104					100			
	CHEM	111* (Required)								
	PHYS	190* (Required)		_						
Coolelan	d Dobovio									
Social and		ral Science 9 hours 3 hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG				
	PLSC	103*, 104*					101, 211*			
	. 250	,		_		SOC	101			
GE Core E	Electives	5 hours	.							
GL COIR E	-16011169	3 Hours				PHYS	190 Gen Physics I* (5)			
-						BIOL	101 General Biology (5)			
-						DIOL	101 General biology (3)			
Major Cou	reas	15 hours	.	Ė	$\overline{}$	Other	Recommended Courses			
wajor cot	CHEM	112 General Chem II* (5)				CHEM	201 Quant Analysis* (5)			
	MATH	201 Calculus II* (5)		-		CHEM	221 Organic Chem (5)			
	PHYS	210 Gen Physics II* (5)				COMP	111 Intro to Comp Science* (4)			
	FIII 3	210 Gen Filyaica II (3)				MATH	202 Calculus III* (5)			
						IVIAITI	202 Galculus III (J)		I	L

 Programs of Study
 110 V1.04
 2019-20

CNS: PC Repair Certificate CNS: Cisco Networking Certificate

CNS: Information Technology Certificate

CNS: Computer and Network Support Technology AAS

The Computer and Network Support Technology program (CNS) prepares students for employment as support personnel in the areas of computer and information services. Students successfully completing this program will be able to setup and maintain microcomputer systems as well as perform basic administrative/maintenance tasks in a networked computing environment.

The PC Repair Certificate provides an opportunity for students not wishing to complete a full two-year program in computer and network support to acquire the basic computer assembly/maintenance/setup skills required for entry-level employment in the information technology/services area. Successful graduates will be able to utilize industry terminology, assemble, setup, and maintain Intel-based ("IBM compatible") personal computers, and perform basic computer networking tasks. The program is based around two PC basics courses taught in a strong "hands-on" environment in the classroom. Students successfully completing the program will be qualified to complete and pass CompTIA's A+ PC repair exams; although neither taking nor passing the exam is a formal requirement for obtaining the certificate

The IT Certificate prepares students to enter a career in Information Technology with a basic skill set that will provide entry level knowledge of basic network administration using the Microsoft Windows family of server operating systems. The Computer Network classes will provide general and advanced training in Microsoft servers, security and administration as they are used in the current industry.

The Cisco certificate provides an opportunity for students not wishing to complete a full two-year program in computer and network support to acquire the basic computer networking infrastructure skills required for entry-level employment in the information technology/services area. Successful graduates will be able to utilize industry terminology, setup/maintain infrastructure components of both local and wide-area computer networks, and recognize/mitigate common network security threats. The program is built around four basic internetworking courses provided online by Cisco Services and taught in Crowder's classroom by a Cisco-certified instructor. Students successfully completing the program will be qualified to complete and pass Cisco's CCNA (Certified Cisco Network Administrator) exam, although neither taking nor passing the CCNA exam is a formal requirement for obtaining the certificate.

Program of Study

		Program of Study	
PC Repair To	echnic	al Courses	16 hours
CNS	101	Introduction to Electronics (3)	
CNS	111	PC Basics I (3)	
CNS	112*	PC Basics II (3)	
CNS	115	Cisco Networking (3)	
COLL	101	College Orientation	
CNS	149	Cybersecurity I (3)	
Information	Techno	ology Courses	12 hours
CNS	122	VMWare: Install, Configure, Ma	ın (3)
CNS	275	Advanced MS Server* (3) [Elec	tive for AAS]
CNS	Appro	oved Electives (6)	
Cisco Netwo	orking (Certificate	9 hours
CNS	116	Cisco Networking II (3)	
CNS	217	Cisco Networking III (3)	
CNS	218	Cisco Networking IV (3)	
Communica	tions		9 hours
Written	Comm	unications (6 hours)	
ENGL	101*		
ENGL	102*		
ENGL	203*		
Oral Col	mmuni	cations (3 hours)	
COMM	104*		
Mathematics			3 hours
MATH	104*	MATH	135*
Civics			3 hours
HIST	106*,	107* PLSC	103*
Required Co			9 hours
BSAD		OR – CNS 105/105	
BSAD	125	0.00.1	
CNS	285*	CNS Internship (4)	
CNS Elective		CNO IIILEITISTIIP (4)	6 hours
		Cybersecurity I (3)	6 hours
CNS Elective	es		6 hours
CNS Elective	es 149	Cybersecurity I (3)	6 hours
CNS Elective CNS CNS	149 222	Cybersecurity I (3) VmWare: Optimize & Scale (3)	6 hours

Suggested Plan of Study FIRST YEAR

Fall Sem	ester	•	Hours		
CNS	101	Introduction to Electronics	3		
CNS	111	PC Basics I	3		
CNS	112	PC Basics II	3		
CNS	115	Cisco Networking I	3		
CNS	149	Cybersecurity I	3		
COLL	101	College Orientation	1		
		TOTAL	16		
Graduate with PC Repair Certificate					

Spring S	emes	ster H	ours
CNS	116	Cisco Networking II	3
CNS	122	VmWare VSphere: Install, Config, Man	3
CNS	249	Cybersecurity II	3
CNS	275	Advanced Microsoft Server	3
		ΤΟΤΔΙ	12

Graduate with Information Technology Certificate

Fall Semester

SECOND YEAR

Hours

9

24

BSAD 125 Computer Applications	3
COMM 104 Fundamentals of Speech	3
CNS 217 Cisco Networking III	3
CNS 222 VmWare VSphere: Optimize and Scale	3 3 3 3
Approved Mathematics Course	3
Approved Written Communications Course	3
TOTAL	18
Spring Semester H	lours
CNS 105 Technical Career Development I	1
CNS 106 Technical Career Development II	1
CNS 218 Cisco Networking IV	3
CNS 285 CNS Internship	4
Approved Civics Course	3 3
Approved Written Communications Course	3
TOTAL	15
Graduate with Cisco Certificate	
Graduate with CNS Technology AAS	
Total PC Repair Certificate Hours Required	16
Additional Hours Needed for IT Certificate	12

Additional Hours Needed for Cisco Certificate

Additional Hours Needed for AAS

Total AAS Hours Required



CERTIFICATE PC Repair

		Do	one	Curr	To do	Done	Curr	To d
Orientation		1 hour						
COLL	101 College Orientation				_			
Major Courses	1:	5 hours				Т	П	
Require	ed Coursed (12 hours)							
CNS	101 Introduction to Electronics ((3)						
CNS	111 PC Basics I (3)	_						
CNS	112 PC Basics II* (3)	_						
CNS	115 Cisco Networking (3)	_				<u> </u>	_	
Approv	red Electives (3 hours)							
CNS	149 Cybersecurity	_						
Other C	NS courses as approved by division	on chair						



CERTIFICATECisco Networking

Done Curr To do

CROWDER		CER	TIFIC	ATI					
-COLLEG	E	Informatio	n Te	chn	olog	jy			
			Done	Curr	To do				
Major Course	s	18 hours	Т						
Re	Required (12 hours)								
CN	IS	111 PC Basics (3)							
CN	lS	112 PC Basics II* (3)			_				
CN	lS	122 VMw are: Install, Config, Manage (3)							
CN	lS	275 Advanced MS Server* (3)			_				
Ap	Approved Electives (6 hours)								
CN	lS	149 Cybersecurity (3)							
CN	IS	222 VMw are: Optimize & Scale (3)							

		Done	Curr	To do
Orientation	1 hour			
COLL	101 College Orientation			
Major Courses	18 hours			
CNS	101 Intro to Electronics (3)			
CNS	111 PC Basics* (3)			
CNS	115 Cisco I*(3)			
CNS	116 Cisco II*(3)			
CNS	217 Cisco III* (3)			
CNS	218 Cisco IV* (3)			

ASSOCIATE OF APPLIED SCIENCE DEGREE CROWDER COLLEGE **Computer & Network Support Technology** Done Curr To do Done Curr To do 1 hour Orientation 101 COLL Communication 9 hours Written Communications (6 hours) Oral Communications (3 hours) COMM 104* **ENGL** 102*, 104* **ENGL ENGL** 203* Mathematics 3 hours MATH 135* MATH 104* **Civics** 3 hours HIST 106* **PLSC** 103*, 104* 107* HIST Required Technical Courses 25 hours Required Support Courses 5 hours **CNS** 101 Intro to Electronics (3) BSAD 103 Pro Development (2) CNS 111 PC Basics I* (3) OR CNS 105 & 106 (2) CNS 112 PC Basics II* (3) BSAD 115 Computer Concepts (3) CNS 115 Cisco Network I* (3) BSAD 125 (3) OR **CNS** 116 Cisco Networking II* (3) 15 hours **CNS** 217 Cisco Netw orking III* (3) Approved Electives CNS 218 Cisco Networking IV* (3) CNS 122 VmWare: Install (3) CNS 285 CNS Internship* (4) CNS 149 Cybersecurity I (3) CNS 222 VmWare: Optimize (3) CNS 249 Cybersecurity II (3) CNS 250 Linux Network Admin* (3) CNS 275 Advanced MS Server* (3) (*) - These courses have pre-requisite requirements. See catalog description for details

Construction Technology Certificate

Construction: Alternative Technologies AAS

The Construction – Alternative Technologies program prepares students for employment in the construction industry or in related occupations. The program is built around National Center for Construction Education and Research (NCCER) standards and is comprised of a core component covering basic employability skills, introductory carpentry, and green building practices coupled with specialty options of general construction, construction management, or alternative technologies.

The Construction Technology certificate prepare students for entry-level employment in the construction industry with a skill set that includes construction safety, common hand/power tools, basic carpentry fundamentals, framing and finishing, masonry, plumbing, and residential wiring. All courses are based on the NCCER (National Council for Construction Education and Research) curriculum.

Program of Study

Construction Tech Certificate Courses 10 hours COLL 101 College Orientation (1) CONS 105 Introduction to Construction Technology (3) CONS 112 Carpentry Fundamentals (3) **CONS** 116* Framing & Finishing (3) Electives (All Required for Advanced Cert) 6 hours **CONS** 121± Masonry (3) CONS Plumbing (3) (AAS Elective) CONS Electrical (3) (AAS Elective) **CONS** 174* Carpentry Forms (3) (AAS Elective) Communications 9 hours Written Communications (6 hours) ENGL 101* **ENGL** 102* **ENGL** 203* Oral Communications (3 hours) COMM 104* Mathematics 3 hours MATH 135* **Civics** 3 hours HIST **PLSC** 106*, 107* 103* **Common Support Courses** 8 hours **BSAD** 103 **BSAD** 115 - OR - BSAD 125 **DRFT** 105 **Common Construction Courses** 6 hours **CONS** 103* Sustainable Building Fundamentals (3) CONS 290* Construction Internship (3) Alternative Technology Courses 18 hours **AMT** Introduction to Industrial Electricity (3) **CONS** 155* Basic HVAC (3) **CONS** 232 Site Layout (3) **CONS** Geothermal Heat Pump Systems (3) 264* CONS 265* Alt Energy Techniques (3) **CONS** 268* Energy Usage Auditing (3)

*Prerequisite requirement ±NOT required for AAS

Suggested Plan of Study FIRST YEAR

FIRST TEAR	
Fall Semester AMT 102 Introduction to Industrial Electricity COLL 101 College Orientation CONS 103 Sustainable Bldg Fundamentals CONS 105 Intro to Construction Technology CONS 131 Plumbing (Elective for Cert) CONS 141 Electrical (Elective for Cert) TOTAL	Hours 3 1 3 3 3 3 16
Spring Semester BSAD 115 Computer Concepts – OR – BSAD 1 CONS 112 Carpentry Fundamentals CONS 116 Framing and Finishing CONS 155 Basic HVAC DRFT 105 Architectural Drafting TOTAL Graduate with Construction Technology Certification	3 3 3 3 15
SECOND YEAR Fall Semester COMM 104 Fundamentals of Speech CONS 232 Site Layout CONS 265 Alt Energy Technology MATH 135 Algebra for Calculus Approved Civics Course Approved Written Communications Course TOTAL	Hours 3 3 3 3 3 3 18
Spring Semester CNS 105 /106 – OR – BSAD 103 CONS 264 Geothermal Heat Pump Systems CONS 268 Energy Usage Auditing CONS 290 Construction Internship Approved Written Communications Course TOTAL Graduate with Construction: Alt Technologies A	Hours 2 3 3 3 14 AS
Total Basic CERTIFICATE Hours Required Additional Hours Needed for AAS Total AAS Hours Required	16 47 63



CERTIFICATE Construction Technology

Students must earn 16 hours for this certificate.

				Done	Curr	To do
Orientation)	1 h	hour			
	COLL	101 College Orientation				
_						
Construction	on Courses	9 hc	ours			
	CONS	105 Intro to Construction Technology (3	3)			
	CONS	112 Carpentry Fundamentals (3)				
	CONS	116 Framing and Finishing* (3)				
Ammunicad		G ha				
Approved I	Electives	0 NC	ours			
	CONS	121 Masonry (3)				
	CONS	131 Plumbing (3)				
	CONS	141 Electrical* (3)				



ASSOCIATE OF APPLIED SCIENCE DEGREE Construction: Alternative Technologies Option

			Done	Curr	To do	-	Done	Curr	To do
Orientat	tion	1 hour							
	COLL	101							
Commu	nications	9 hours			ı				
Oomma		Communications (6 hours)				Oral Communications (3 hours)			
	ENGL	101*				COMM 104*			
	ENGL	102*, 104*							
	ENGL	203*							
Mathem	otios	3 hours	_						
watnem	MATH	135*							
	IVIZTITI								
Civics		3 hours							
	HIST	106*				PLSC 103*, 104*			
	HIST	107*							
Commo	n Sunnor	t Courses 8 hours	_						
Oommo	BSAD	103 Professional Development (2)							
	BSAD	115 Computer Concepts (3)				OR BSAD 125 Computer Apps (3)			
	DRFT	105 Architectural Drafting (3)							
0	0	45 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							
Commo	n Constru CONS	103 Sustainable Bldg Fund* (3)				CONS 116 Framing and Finishing* (3)			
	CONS	105 Intro to Const Tech (3)				CONS 290 Construction Intern* (3)			
	CONS	112 Carptry Fundamentals* (3)	l			290 Construction Intern (3)			
Specialt	-	s: Alt Tech 24 hours							
	-	d Courses: 21 hours				Specialty Electives: Choose 3 hours			
	AMT	102* Intro to Ind Elect (3)	l			CONS 131 Plumbing (3)			
	CONS	155 Basic HVAC* (3)	l			CONS 141 Electrical Wiring* (3)			
	CONS	232 Site Layout (3)	l			CONS 174 Carpentry Forms* (3)			
	CONS	264 Geothermal Heat Pump* (3)	l						
	CONS	265 Alt Energy Tech* (3) 268 Energy Usage Audit* (3)	l						
	CONS	200 Lifelyy Usage Addit (3)		<u> </u>					Ш

Construction Technology Certificate Advanced Construction Technology Certificate Construction AAS

The General Construction program prepares students for employment in the construction industry or in related occupations. The program is built around National Center for Construction Education and Research (NCCER) standards and is comprised of a core component covering basic employability skills, introductory carpentry, and green building practices coupled with specialty options of general construction, construction management, or alternative technologies.

The Construction Technology and Advanced Construction Technology certificates prepare students for entry-level employment in the construction industry with a skill set that includes construction safety, common hand/power tools, basic carpentry fundamentals, framing and finishing, masonry, plumbing, and residential wiring. In the Advanced certificate, students will be introduced to site layout and project management and supervision. All courses are based on the NCCER (National Council for Construction Education and Research) curriculum.

Program of Study

Construction Tech Certificate Courses 10 hours COLL 101 College Orientation (1) CONS Introduction to Construction Technology (3) 105 CONS Carpentry Fundamentals (3) 112 CONS 116* Framing & Finishing (3) Electives (All Required for Adv Cert & AAS) 6 hours CONS 121 Masonry (3) Plumbing (3) CONS 131 CONS Electrical (3) 141* Advanced Construction Tech Certificate Courses 12 hours CONS 174* Carpentry Forms (3) CONS 232 Site Layout (3) **CONS** Project Management (3) 245± CONS 265* Alt Energy Techniques (3) Communications 9 hours Written Communications (6 hours) **ENGL** 101* **ENGL** 102* **ENGL** 203* Oral Communications (3 hours) COMM 104* Mathematics 3 hours **MATH** 104* MATH 135* Civics 3 hours HIST 106*, 107* 103* **PLSC** 8 hours Common Support Courses **BSAD** 103 **BSAD** 115 - OR - BSAD 125 **DRFT** 105* **Common Construction Courses** 6 hours **CONS** Sustainable Building Fundamentals (3) 103* CONS 290* Construction Internship (3) **Major Courses** 6 hours **AMT** 102 Introduction to Industrial Electricity (3) **CONS** 155* Basic HVAC (3)

*Prerequisite requirement ±NOT required for AAS

Suggested Plan of Study

FIRST YEAR	
Fall Semester	Hours
COLL 101 College Orientation	1
CONS 103 Sustainable Bldg Fundamentals	3
CONS 105 Intro to Construction Technology	3 3 3 3
CONS 131 Plumbing (Elective for Cert)	3
CONS 141 Electrical (Elective for Cert)	3
CONS 232 Site Layout (Adv Construction Cert)	3
TOTAL	16
Spring Semester	Hours
CONS 112 Carpentry Fundamentals	3
CONS 116 Framing and Finishing	3 3 3
CONS 121 Masonry (Elective for Cert)	3
CONS 174 Carpentry Forms (Adv Construction C	
CONS 245 Project Mgmt (Adv Construction Cert)	
TOTAL	15
Graduate with Construction Technology Certifica	ite
SECOND YEAR	
Fall Semester	Hours
AMT 102 Introduction to Industrial Electricity	3
BSAD 115 Computer Concepts – OR – BSAD 12	25 3
COMM 104 Fundamentals of Speech	25 3 3 ert) 3 3
CONS 265 Alt Energy Technology (Adv Const Co	ert) 3
Approved Mathematics Course	3
Approved Written Communications Course	
TOTAL Creducts with Advanced Construction Tech Cont	18
Graduate with Advanced Construction Tech Cert	ilicate
Carriera Compostor	Цаниа

Spring Semester	Hours
BSAD 103 Pro Dev - OR - CNS 105/106	2
CONS 155 Basic HVAC	3
CONS 290 Construction Internship	3
DRFT 105 Architectural Drafting	3
Approved Civics Course	3
Approved Written Communication	3
TOTAL	17
Graduate with General Construction AAS	
Total Basic CERTIFICATE Hours Required	16
Additional Hours for Advanced Certificate	15
Additional Hours Needed for AAS	35
Total AAS Hours Required	66
•	



CERTIFICATE Construction Technology

Students must earn 16 hours for this certificate.

		Done	Curr	To do	ı
Orientation	1 hour				
COLL	101 College Orientation				
Construction Courses	9 hours				
CONS	105 Intro to Construction Technology (3)				
CONS	112 Carpentry Fundamentals (3)				
CONS	116 Framing and Finishing* (3)				
Approved Electives	6 hours				
CONS	121 Masonry (3)				
CONS	131 Plumbing (3)				
CONS	141 Electrical* (3)				
			•		

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CERTIFICATE Advanced Construction Technology

		Done	Curr	10 00)		Done	Curr	10 00
Construction Courses	30 hours	l	Ī	Ī	1		Ī	l	l
CONS	105 Intro to Construction Technology (3)				CONS	141 Electrical* (3)			
CONS	112 Carpentry Fundamentals (3)				CONS	174 Carpentry Forms* (3)			
CONS	116 Framing and Finishing* (3)				CONS	232 Site Layout (3)			
CONS	121 Masonry (3)				CONS	245 Project Management (3)			
CONS	131 Plumbing (3)				CONS	265* Alt Energy Techniquies (3)			



ASSOCIATE OF APPLIED SCIENCE DEGREE Construction

		Done	Curr	To do		Done	Curr	To do
1	1 hour							
COLL	101							
eations	9 hours							
					Oral Communications (3 hours)			
	. ,				. ,			
ENGL								
ENGL	203*							
					l			
MATH	104*				MATH 135*			
	3 hours							
HIST	106*				PLSC 103*, 104*			
HIST	107*							
······································	Courses 9 hours							
	. ,				RSAD 125 Computer Applications (3)			
	·				123 Computer Applications (5)			
	3 ()							
	• ,				3 (1)			
	, ,				CONS 290 Construction Internship* (3)		
CONS	112 Carptry Fundamentals* (3)							
rses	24 hours				1			
AMT					CONS 155 Basic HVAC* (3)			
					CONS 174 Carpentry Forms* (3)			l
CONS	121 Masonry (3)				TOONS 174 Carpenary Forms (5)			
CONS	131 Plumbing (3)				CONS 232 Site Layout (3)			
	Acoll ations Written ENGL ENGL ENGL ENGL ENGL ENGL ENGL ENGL	### COLL 101 ### Actions	1 hour	1 hour	1 hour	### Actions ### Ac	Thour COLL 101	1 hour

Construction Technology Certificate Advanced Construction Technology Certificate Construction Management AAS

The Construction Management program prepares students for employment in the construction industry or in related occupations. The program is built around National Center for Construction Education and Research (NCCER) standards and is comprised of a core component covering basic employability skills, introductory carpentry, and construction management.

The Construction Technology and Advanced Construction Technology certificates prepare students for entry-level employment in the construction industry with a skill set that includes construction safety, common hand/power tools, basic carpentry fundamentals, framing and finishing, masonry, plumbing, and residential wiring. In the Advanced certificate, students will be introduced to site layout and project management and supervision. All courses are based on the NCCER (National Council for Construction Education and Research) curriculum.

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Program of Study

Construction Technology Certificate Courses 10 hours COLL 101 College Orientation (1) CONS 105 Introduction to Construction Technology (3) CONS Carpentry Fundamentals (3) CONS 116* Framing & Finishing (3) Electives (All Required for Adv Cert & AAS) 9 hours CONS 121 Masonry (3) CONS Plumbing (3) CONS 141* Electrical (3) **Advanced Certificate Courses** 12 hours CONS 174* Carpentry Forms (3) CONS 232 Site Layout (3) CONS 245* Project Management (3) Alternative Energy Techniques (3) CONS Communications 9 hours Written Communications (6 hours) **ENGL** 101* **ENGL** 102* **ENGL** 203* Oral Communications (3 hours) COMM 104* Mathematics 3 hours MATH 104* **MATH** 135* **Civics** 3 hours HIST 106*. 107* PLSC 103* **Common Support Courses** 8 hours **BSAD** 103 **BSAD** - OR - BSAD 125 115 DRFT 105* Common Construction Courses 6 hours CONS 103* Sustainable Building Fundamentals (3) CONS 290* Construction Internship (3)

Suggested Plan of Study FIRST YEAR

Fall Semester	Hours
COLL 101 College Orientation	1
CONS 103 Sustainable Bldg Fundamentals	3
CONS 105 Intro to Construction Technology	3
CONS 131 Plumbing (Elective for Cert)	3
CONS 141 Electrical (Elective for Cert)	3 3
CONS 232 Site Layout	3
TOTAL	16
Spring Semester	Hours
CONS 112 Carpentry Fundamentals	3
CONS 116 Framing and Finishing	3
CONS 121 Masonry (Elective for Cert)	3 3 3 3
CONS 174 Carpentry Forms	3
CONS 245 Project Management	3
CONS 290 Construction Internship	3
TOTAL	18
Graduate with Construction Technology Certific	ate
SECOND YEAR	
Fall Semester	Hours
BSAD 103 Pro Dev - OR - CNS 105/106	2
COMM 104 Fundamentals of Speech	3
CONS 265 Alt Energy Technology	
Approved Mathematics Course	3 3
Approved Written Communications Course	3
TOTAL	14
Graduate with Advanced Construction Tech Ce	rtificate
Spring Semester	Hours
BSAD 115 Computer Concepts – OR – BSAD	
DRFT 105 Architectural Drafting	3
Approved Civics Course	3
Approved Written Communication	3 3
TOTAL	12
Graduate with Construction Management AAS	
Total Basic CERTIFICATE Hours Required	15
Additional Hours for Advanced Certificate	13
Additional Hours Needed for AAS	32
Total AAS Hours Required	60
Total And Hours Required	50

Courses for Certificate	
Additional Courses for AAS Degree	

^{*} Prerequisite requirement



CERTIFICATE Construction Technology

Students must earn 16 hours for this certificate.

		Done	Curr	To do	
Orientation	1 ho	ur			
COLL	101 College Orientation				
Construction Courses	9 hou	ırs			
CONS	105 Intro to Construction Technology (3)	"			
CONS	112 Carpentry Fundamentals (3)				
CONS	116 Framing and Finishing* (3)				
Approved Electives	6 hou	ırs		П	
CONS	121 Masonry (3)				
CONS	131 Plumbing (3)				
CONS	141 Electrical* (3)				

CROWDER
COLLEGE
COLLEGE

CONS

174 Carpentry Forms* (3)

CERTIFICATE Advanced Construction Technology

Done Curr To do

Done Curr To do

Construction Courses 30 ho		ours									
	CONS 105 Intro to Construction Technolog		gy (3)				CONS	141 Electrical* (3)		.	
	CONS	112 Carpentry Fundamentals (3)				(CONS	174 Carpentry Forms* (3)		.	
	CONS	116 Framing and Finishing* (3)					CONS	232 Site Layout (3)			_
	CONS	121 Masonry (3)					CONS	245 Project Management (3)			
	CONS	131 Plumbing (3)					CONS	265* Alt Energy Techniquies (3)			
A		ACCOCIATE OF	<u> </u>	D	<u> </u>			T DECDEE			
© CROW COLL		ASSOCIATE OF									
COLL		Constr					me	nt			
			Done	Curr	To do				Done	Curr	To do
Orientation		1 hour									
	COLL	101									
Communic	cations	9 hours									
	Written	Communications (6 hours)				Oral (Comm	nunications (3 hours)			
	ENGL	101*				COMM	104	*			
	ENGL	102*, 104*									
	ENGL	203*									
Mathemat	ics	3 hours									
	MATH	104									
	MATH	135*									
Civics		3 hours									
	HIST	106*				PLSC	103	*, 104*			
	HIST	107*						-			
Common											
	BSAD	103 Professional Development (2)									
	BSAD	115 Computer Concepts (3)				OR	BSA	AD 125			
	DRFT	105 Architectural Drafting (3)									
Common	Construc	ction Courses 15 hours									
	CONS	103 Sustainable Bldg Fund* (3)				CONS	116	Framing and Finishing* (3)			
	CONS	105 Intro to Const Tech (3)				CONS		Construction Intern* (3)			
	CONS	112 Carpentry Fundamentals* (3)						,			
Major Cou	rses	21 hours									
.,	CONS	121 Masonry (3)				CONS	232	Site Layout (3)			
	CONS	131 Plumbing (3)				CONS		Project Management* (3)			
	CONS	141 ⊟ectrical* (3)				CONS		Alternative Energy Tech* (3)			

CERTIFICATE

Construction: Electrical Certificate

This certificate prepares students to enter a career in construction or industrial with a skill set that will provide entry level knowledge of basic Electricity including industrial and residential electrical wiring. This program will cover an introduction to the National Electrical Code (NEC), fundamental electrical theory, and on-hands skills. Students will gain knowledge that can provide a platform into the world of employment opportunities in Electricity.

Program of Study

Certificate Courses CNS 101 Introduction to Electronics (3) AMT 111 Introduction to Ind Safety (1) AMT 102 Introduction to Ind Electricity (3) CONS 141 Electrical (3) CONS 151 Introduction to NEC (3) CONS 251 NEC Wiring Methods (3)

Suggested Plan of Study

FIRST YEAR Fall Semester Hours Introduction to Industrial Electricity AMT 102 AMT 111 Introduction to Industrial Safety 1 CNS 101 Introduction to Electronics 3 3 3 **CONS 141** Electrical CONS 151 Introduction to NEC CONS 251 NEC Wiring Methods 3 **TOTAL** 16 **Total Hours Required** 16

CROWDER	С	ER	ΓIFI	CATE	:			
COLLEGE	Constr	ucti	on:	Elec	ctrical			
General Education Cor	re	Done	Curr	To do		Done	Curr	To do
Required Courses	16 hours							
CNS	101 Introduction to ⊟ectronics (3)							
ATM	111 Introduction to Ind Safety (1)							
AMT	102 Introduction to Ind Electricity (3)							
CONS	141 Electrical (3)							
CONS	151 Introduction to NEC (3)							
CONS	251 NEC Wiring Methods (3)							

Criminal Justice AA

The Criminal Justice Associate Degree Program is designed to provide the student with the legal, technical, and practical aspects of justice system. This degree will provide the student with opportunities for careers or continued education in criminal justice, corrections, juvenile justice, and government or private security operations.

Program of Study

Orientati COLL			1 hour					
Commun	-		9 hours					
	Written Communications (6 hours)							
ENGL	101*	,						
ENGL	102*							
Oral Co	ommunications (3 hours	;)						
COMM	104*							
Humaniti			9 hours					
	ts should select classes fr	om two d	lifferent disciplines					
(prefixe	,	LUOT	404+ 400+					
ART		HIST	- , -					
ASL ENGL	101, 102*	MUSC PHIL	101 101*, 121, 201*, 202*					
	,,		101, 121, 201, 202					
ENGL FREN	230*, 235*, 240*, 245* 101	TA	205					
Mathema		IA	3 hours					
	125*, 130*, 135*#		3 nours					
			7 6 2					
Science			7 hours					
	ts must meet the seven he	our requir						
Studen	s from different disciplines		rement by selecting two					
Studen			rement by selecting two					
Studen courses course	s from different disciplines with a lab <i>Lab</i>	(prefixes	rement by selecting two and at least one					
Studen courses course BIOL	s from different disciplines with a lab <i>Lab</i> 101, 110, 120		rement by selecting two s) and at least one					
Studen courses course BIOL BIOL	s from different disciplines with a lab <i>Lab</i> 101, 110, 120 152*, 252*	(prefixes	rement by selecting two and at least one					
Studen courses course BIOL BIOL CHEM	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111*	(prefixes	rement by selecting two and at least one					
Studen courses course BIOL BIOL CHEM GEOL	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210*	(prefixes	rement by selecting two and at least one					
Studen courses course BIOL BIOL CHEM GEOL PHYS	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190*	(prefixes	rement by selecting two s) and at least one Non-Lab 105					
Studen courses course BIOL BIOL CHEM GEOL PHYS	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210*	(prefixes	rement by selecting two s) and at least one Non-Lab 105					
Studen courses course BIOL BIOL CHEM GEOL PHYS	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Its should select classes from	(prefixes	rement by selecting two and at least one Non-Lab 105 9 hours					
Studen courses BIOL BIOL CHEM GEOL PHYS Social ar Studen (prefixe	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Its should select classes from	(prefixes	rement by selecting two s) and at least one Non-Lab 105					
Studen courses BIOL BIOL CHEM GEOL PHYS Social ar Studen (prefixes	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* In Behavioral Science ts should select classes fres)	(prefixes	ement by selecting two and at least one Non-Lab 105 9 hours lifferent disciplines					
Studen courses BIOL BIOL CHEM GEOL PHYS Social ar Studen (prefixes	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* In Behavioral Science at should select classes from (3 hours) 106*, 107*	(prefixes	weement by selecting two so and at least one Non-Lab 105 9 hours lifferent disciplines 201*, 202* 111					
Studen courses BIOL BIOL CHEM GEOL PHYS Social ar Studen (prefixes Civics HIST	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* In Behavioral Science at should select classes from (3 hours) 106*, 107*	PHYS om two d ECON GEOG PSYC	sement by selecting two so and at least one Non-Lab 105 9 hours different disciplines 201*, 202* 111 101, 211*					
Studen courses BIOL BIOL CHEM GEOL PHYS Social ar Studen (prefixes Civics HIST	s from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* In Behavioral Science at should select classes from (3 hours) 106*, 107*	PHYS om two d ECON GEOG	weement by selecting two so and at least one Non-Lab 105 9 hours lifferent disciplines 201*, 202* 111					

GE CORE Electives

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Courses			18 hours				
Requ	ired Courses (15 hours)		Electives (3 hours)				
CJ	101	CJ	102				
CJ	210	CJ	190				
CJ	250	CJ	270 **				
CJ	265	CJ	275				
CJ	280	CJ	290 **				

^{# -} Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester		Hours
CJ 101 Intro to Criminal Justic	e Sys	3
COLL 101 College Orientation	•	1
ENGL 101 English Composition I		3
MATH 135 Algebra for Calculus		3
Approved GE Core Elective		2
Approved Humanities Course		3 3 2 3
, ,pp. 0.00	TOTAL	15
Spring Semester		Hours
CJ 280 Report Writing		3
ENGL 102 - OR - ENGL 104		3
Approved Civics Course		3 3
Approved Science Course		3-5
,,	TOTAL	12-14
SECOND YEA	AR .	
Fall Semester		Hours
CI 010 Crimainal Drasaduras		2

Fall Semester		Hours
CJ 210 Crit	minal Procedures	3
CJ 250 Crit	minal Law	3
COMM 104 Fur	ndamentals of Speech	3
Approved Scien	ce Course	3-5
Approved Soc 8	Behavioral Science Course	3
• •	TOTAL	15-17

Spring Semester	Hours
CJ 265 Ethics in Criminal Justice	3
Approved Criminal Justice Course	3
Approved GE Core Elective	3
Approved Humanities Course	3
Approved Humanities Course	3
Approved Soc & Behavioral Science Course	3
TOTAL	18

TOTAL HOURS REQUIRED 60-64

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

^{*}Prerequisite required

^{**}Highly recommended for Police Academy at MSSU

	LEGE	C	rimin	al Ji	usti	ce				
eneral Edu	cation Co			Curr	_			Done	Curr	To
Orientatio		1 hou		Jun				20.110	- Curr	
	COLL	101								
Commun	iontions	9 hour	,	I		1		T		
Commun		communications (6 hours)	•			Oral C	Communications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*				COIVIIVI	10-7			
Humaniti		9 hour	S							
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC				_
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*					101, 102*			
	FREN	101		l		TA	205			
Mathema	atics	3 hour	s							
	MATH	125*								
	MATH	130*								
	MATH	135* (Recommended)								
Science		7 hour	•	Ī	l	1		1		
Science	Lab	7 Hour				Non-L	ah			
	BIOL	101, 110, 120				PHYS				
	BIOL	152*, 252*				11110	100	1		-
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								
Social an		oral Science 9 hours	S							
Jocial all										-
Jocial all	Civics (3					FCON	204* 202*			
Jocial all	HIST	106*					201*, 202*			-
Jocial all	HIST HIST	106* 107*				GEOG	111			_
Jocial all	HIST	106*				GEOG PSYC	111 101, 211*			
	HIST HIST PLSC	106* 107* 103*, 104*				GEOG	111			
	HIST HIST PLSC	106* 107*	S			GEOG PSYC	111 101, 211*			
GE Core	HIST HIST PLSC Electives	106* 107* 103*, 104* 5 hour	S			GEOG PSYC	111 101, 211*			
GE Core Any addition	HIST PLSC Flectives pnal 5 credit	106* 107* 103*, 104*				GEOG PSYC	111 101, 211*			
GE Core I	HIST HIST PLSC Electives onal 5 credit annot be us	106* 107* 103*, 104* 5 hours hours from courses listed above.				GEOG PSYC	111 101, 211*			
GE Core I	HIST HIST PLSC Electives onal 5 credit annot be us	106* 107* 103*, 104* 5 hours from courses listed above. ed as Core electives if counted unde				GEOG PSYC	111 101, 211*			
GE Core Any addition Courses canother sec	HIST HIST PLSC Electives onal 5 credit annot be us action of this	106* 107* 103*, 104* 5 hours hours from courses listed above. ed as Core electives if counted under Program of Study.	r			GEOG PSYC SOC	111 101, 211* 101			
GE Core Any addition Courses canother see	HIST HIST PLSC Electives onal 5 credit annot be us action of this	106* 107* 103*, 104* 5 hours hours from courses listed above. ed as Core electives if counted under Program of Study. 18 hours Courses 18 hours Courses (15 hours)	ī			GEOG PSYC SOC	111 101, 211* 101 101 ves (3 hours)			
GE Core Any addition Courses canother sec	HIST HIST PLSC Electives anal 5 credit annot be us action of this Justice Co Required CJ	106* 107* 103*, 104* 5 hours hours from courses listed above. ed as Core electives if counted under Program of Study. 18 hours Courses 18 hours 101 Intro to the Criminal Justice Sys	ī			GEOG PSYC SOC	111 101, 211* 101 102 Crime Scene Processing (3)			
GE Core I	HIST HIST PLSC Electives onal 5 credit annot be us action of this Justice Co Required CJ CJ	106* 107* 103*, 104* 5 hours hours from courses listed above. ed as Core electives if counted under Program of Study. 18 hours Courses (15 hours) 101 Intro to the Criminal Justice Sys 210 Criminal Procedures (3)	ī			GEOG PSYC SOC SOC	111 101, 211* 101 ves (3 hours) 102 Crime Scene Processing (3) 190 Patrol Operations (3)			
GE Core I	HIST HIST PLSC Electives anal 5 credit annot be us action of this Justice Co Required CJ	106* 107* 103*, 104* 5 hours hours from courses listed above. ed as Core electives if counted under Program of Study. 18 hours Courses 18 hours 101 Intro to the Criminal Justice Sys	ī			GEOG PSYC SOC	111 101, 211* 101 102 Crime Scene Processing (3)			

Criminal Justice Certificate Criminal Justice AAS

The Criminal Justice Associate Degree Program is designed to provide the student with the legal, technical, and practical aspects of justice system. This degree will provide the student with opportunities for careers or continued education in criminal justice, corrections, juvenile justice, and government or private security operations.

Criminal Justice is increasingly becoming a multi-disciplinary vocation involving law enforcement, the courts, corrections, security professionals, victim advocates and juvenile services. The certificate is designed for professionals who want to increase their knowledge to meet their career objectives in these growing fields.

Program of Study

Certificate	Com	rses	16 hours
CJ		Introduction to Criminal Justice (3)	70 110410
CJ		Criminal Procedures (3)	
CJ		Criminal Law (3)	
CJ		Ethics in Criminal Justice (3)	
CJ		Report Writing (3)	
COLL		College Orientation (1)	
Certificate			9 hours
All red	quire	d for AAS unless otherwise noted	
CJ	102	Crime Scene Processing (3)	
CJ	103	Telecommunications (3)	
CJ	190	Patrol Operations (3)	
CJ	200	Criminal Investigations± (3)	
CJ	230	Criminal Justice Internship* (3)	
CJ	270	Drug Investigation (3)	
CJ	275	The Juvenile Justice System (3)	
CJ	290	Police Supervision and Managemer	nt (3)
Communic	cation	ıs	9 hours
Written	Comr	nunications (6 hours)	
ENGL	101	•	
ENGL	102	•	
Oral Cor	nmui	nications (3 hours)	
COMM	104*	•	
Mathemati	ics		3 hours
MATH	104	*, 125*	
MATH	135		
Civics			3 hours
HIST	106	*, 107 *	
PLSC	103	•	
Required S	Supp	ort Courses	5 hours
BSAD	103	- OR - CNS 105/106	
BSAD	115	– OR – BSAD 125	
Required (CJ Co	ourses	15 hours
CJ	285	Family Violence (3)	
	nours	of required courses from Certificate	Electives
section			

*Prerequisite requirement ±NOT required for AAS

Suggested Plan of Study

FIRST YEAR

Fall Semester CJ 101 Introduction to Criminal Justice CJ 210 Criminal Procedures CJ 250 Criminal Law COLL 101 College Orientation Approved Certificate Elective	Hours 3 3 3 1 1 3 13
Spring Semester CJ 265 Ethics in Criminal Justice CJ 280 Report Writing CJ 270 — OR — CJ 275—OR — CJ 290 Approved Certificate Elective Approved Certificate Elective TOTAL Graduate with Criminal Justice Certificate	Hours 3 3 3 3 3 15
SECOND YEAR Fall Semester CJ 285 Family Violence CJ 275 The Juvenile Justice System COMM 104 Fundamentals of Speech Approved Mathematics Course Approved Written Communications Course TOTAL	Hours 3 3 3 3 3 15
Spring Semester BSAD 103 Pro Dev – OR – CNS 105/106 BSAD 115 – OR – BSAD 125 CJ 230 Internship CJ 290 Police Supervision & Management Approved Civics Course Approved Written Communication TOTAL Graduate with Criminal Justice AAS	Hours 2 3 3 3 3 7 17
Total CERTIFICATE Hours Required Additional Hours Needed for AAS Total AAS Hours Required	25 35 60



CERTIFICATE Criminal Justice

Done Curr To do

	4 1				
Orientation	1 hour				
COLL	101 College Orientation		 		
	4-1	_		_	
Major Courses	15 hours				
CJ	101 Intro to Criminal Justice (3)		 		
CJ	210 Criminal Procedures (3)		 		
CJ	250 Criminal Law (3)				
CJ	265 Ethics in Criminal Justice (3)				
CJ	280 Report Writing (3)		 		
Specialty Electives	9 hours				
CJ					
00	102 Crime Scene Prcessing (3)		 		
CJ	102 Crime Scene Prcessing (3)103 Telecommunications (3)		 		
	• ,		 		
CJ	103 Telecommunications (3)		 		
C1 C1	103 Telecommunications (3) 190 Patrol Operations (3)				
C1 C1 C1	103 Telecommunications (3) 190 Patrol Operations (3) 200 Criminal Investigations (3) 230 Criminal Justice Internship* (3)				
C1 C1 C1 C1	103 Telecommunications (3) 190 Patrol Operations (3) 200 Criminal Investigations (3)				



ASSOCIATE OF APPLIED SCIENCE DEGREE Criminal Justice

Offinial dustice									
		Done	Curr	To do			Done	Curr	To do
Orientation	1 hour								
COLL	101								
Communications	9 hours								
	Communications (6 hours)					ommunications (3 hours)			
ENGL	101*				COMM	104*			
ENGL	102*, 104*								
Mathematics	3 hours						_		
MATH	125*, 135*				MATH	104*			
IVIATO	125 , 135				IVIATH	104			
Civics	3 hours								
HIST	106*				PLSC	103*, 104*			
HIST	107*								
Required Support	Courses 5 hours								
BSAD	103				OR	CNS 105/106			
BSAD	115				OR	BSAD 125			
Deguired C.I.Com	rses 39 hours	1		ı	1		_		_
Required CJ Cour					CJ	265 Ethics in Criminal Justice (3)			
CJ	101 Intro to Criminal Justice (3)				CJ	` '			
	102 Crime Scene Processing (3)					270 Drug Investigation (3)			
C1 C1	103 Telecommunications (3)				CJ	275 Juvenile Justice Sys (3)			
	190 Patrol Operations (3)	l			CJ	280 Report Writing (3)	I		
CJ	210 Criminal Procedures (3)				CJ	285 Family Violence (3)			
C1 C1	230 Criminal Justice Intern (3)				CJ	290 Police Supervision/Mgmt (3)			
	250 Criminal Law (3)	1			<u> </u>				

Diesel Technology Electrical/Electronic I & II Certificates Diesel Technology Engines I & II Certificates Diesel Technology AAS

Interesting and challenging career opportunities are offered by the transportation and agricultural industries in the area of diesel technology. Jobs available to graduates include technicians, equipment managers, mechanics, service center supervisors, parts personnel, and salesmen. This program prepares students for ASE certification testing.

The Diesel Technology Electrical/Electronic I & II certificates prepare students to enter careers in Diesel Technology with a basic skill set that will provide entry level knowledge of diesel electrical systems. The students will be introduced to basic theory, operation and testing of various electrical systems found on industrial and trucking equipment. The Electrical/Electronic I certificate will introduce the students to basic diesel powertrains, and air conditioning. The students will be instructed on advanced electronics including lighting systems, instrumentation, warning systems, ignition systems, computer controlled systems, and brake systems for the Electrical/Electronic II certificate.

The Diesel Engines I & II certificates prepare students to enter careers in Diesel Engine Technology with a basic skill set that will provide entry level knowledge of diesel engines including parts identification, measurements of parts, parts reusability, and preventive maintenance. This course will take the student into the operation and diagnostics on the Diesel Engine, including disassembling, repairs and reassemble. Students will have an introduction to Hydraulics, and Steering & Suspension.

Students will be required to complete an internship with this program.

Program of Study

<i>E I</i>	4vi 1/F	'la atua wia	I Cardificata Carreas	46 haven
			I Certificate Courses	16 hours
	DIES	184	Electrcity/Electronics (4)	
	DIES	204	Diesel Powertrains (4)	
	DIES	234	Air Conditioning (4)	
	DIES	244*	Internship (4)	
EI			II Certificate Courses	12 hours
	All course	es in Electi	rical/Electronic I plus:	
	DIES	134	Diesel Hydraulics (4)	
	DIES	164	Diesel Brake Systems (4)	
	DIES	284	Diesel Electrical/Electronics (4)	
Di	esel Eng	ines I Ceri	tificate Courses	8 hours
	DIES	124	Prevent Maintenance (4)	
	DIES	144	Diesel Engines I (4)	
	Also requ	ires DIES	234 & 244	
Di	esel Eng	ines II Cer	rtificate Courses	8 hours
	DIES	224	Diesel Steering & Suspension (4)	
	DIES	294*	Diesel Engines II (4)	
	Also requ	ires DIES	124, 134, 144, 234, & 244	
Oı	rientation	1		1 hour
	COLL	101	College Orientation (1)	
Co	ommunic	ations		9 hours
	Written (Communic	cations (6 hours)	
	ENGL	101*		
	ENGL	102*		
	ENGL	203*		
	Oral Con	nmunicati	ions (3 hours)	
	COMM	104*		
Ma	athematic	cs		3 hours
	MATH	104*		
Ci	vics			3 hours
	HIST	106* 107	*	
	PLSC	103*		
Re	equired S	upport Co	ourses	4 hours
	BSAD	115 (3)		
	CNS	106		

Suggested Plan of Study

Students interested in enrolling in diesel technology classes should be advised through the Crowder Technical Education Center (CTEC). After advisement, the student should be enrolled through CTEC personnel. For additional information, please contact 417-455-5596.

Courses for Certificate	
Additional Courses for AAS Degree	

^{*}Prerequisite requirement



CERTIFICATE

CROWDER COLLEGE Diesel Technology: Electrical/Electronic I

CERTIFICATE

Diesel Technology: Electrical/Electronic II

Students must complete 16 hours for the Electrical/Electronic I certificate.

Students must complete 28 hours for the Diesel Technology certificate.

		Done	Curr	10 00			Done	Cull	10
Majar Carrage	46 haves	_			Major Courses	28 hours			_
Major Courses	16 hours				-				
DIES	184 Electricity/Electronics (4)				DIES	134 Diesel Hydraulics (4)			.
DIES	204 Diesel Powertrains (4)				DIES	164 Diesel Brake Systems (4)			
DIES	234 Air Conditioning (4)				DIES	184 Electricity/Electronics (4)			
DIES	244 Internship* (4)				DIES	204 Diesel Powertrains (4)			
					DIES	234 Air Conditioning (4)			.
					DIES	244 Internship* (4)			. _
					DIES	284 Diesel Electrical/Electronics (4)			. _



CERTIFICATE

Diesel Technology: Engines I



CERTIFICATE

Diesel Technology: Engines II

Students must complete 16 hours for the Engines I certificate.

Students must complete 28 hours for the Engines II certificate.

		Done C	Juli 10	o ao			Done	Cull	10 (
Major Courses	16 hours				Major Courses	28 hours			
DIES	124 Prevent Maintenance (4)	l			DIES	124 Prevent Maintenance (4)			.
DIES	144 Diesel Engines I (4)	l			DIES	134 Diesel Hydraulics (4)			. _
DIES	234 Air Conditioning (4)	ll			DIES	144 Diesel Engines I (4)			. _
DIES	244 Internship* (4)	ll			DIES	224 Diesel Steering & Suspension (4)			. _
					DIES	234 Air Conditioning (4)			
					DIES	244 Internship* (4)			
					DIES	294 Diesel Engines I*I (4)			

COL	LEGE		Diesel '	Tecl	nnol	ogy				
			Done	Curr	To do)		Done	Curr	To do
Orientation	on	1 hou	r							
	COLL	101								Щ
Commun	ications	9 hours	s							
	Writter	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
	ENGL	203*								
Mathema	itics	3 hours	s					\top		
	MATH	104*								
Civics		3 hour	s		l			$\overline{}$		
	HIST	106*				PLSC	103*, 104*			
	HIST	107*								
Major Co		44 hours			П			$\overline{}$		
Major Co	DIES	124 Preventive Maintenance (4)	S			DIES	224 Diesel Steering & Susp (4)			
	DIES	134 Diesel Hydraulics (4)				DIES	234 Air Conditioning (4)			
	DIES	144 Diesel Engines I (4)				DIES	244 Diesel Internship* (4)			
	DIES	164 Diesel Brakes (4)				DIES	284 Diesel Electrical/Elect II (4)			
	DIES	184 Electricity/Electronics (4)				DIES	294 Diesel Engines II* (4)			
	DIES	204 Diesel Pow ertrain (4)					3 ()			
Required	l Support	Courses 4 hours	.							
r toquii eu	BSAD	115 Computer Concepts (3)								
CNS				I		•	The state of the s			4

Drafting: Computer Aided Drafting (CAD) Technician Certificate Drafting & Design Technology AAS

The Drafting and Design program begins with basic drafting and progresses through advanced design and Computer Aided Drafting (CAD). During this study, the different fields of drafting that an employee may be exposed to are covered. Drafting fields such as Architectural Drafting, Welding, Electronics, Plumbing and Structural Drafting are included to give the student some exposure to different areas in the industry. Computer aided drafting is taught in conjunction with all drafting classes to give the student experience in drawing and plotting drawings with the computer.

This certificate prepares students to enter a career in drafting technology with a basic skill set that will provide entry level knowledge of basic Engineering, Assembly and Technical drawings, Print Reading. The CAD classes will provide general and advanced training in computer aided drafting as they are used in industry.

Program of Study

Certificate Courses 18 hours DRFT 101 Intro to Engineering Drawing & Print Reading (3) DRFT 103 Technical Drawing (3) DRFT 115 Basic Computer Aided Drafting (3) DRFT 141 Assembly Drawings* (3) DRFT 205 Intermediate Computer Aided Drafting* (3) **DRFT** 215 Adv Computer Aided Drafting* (3) (Elective for AAS) Orientation 1 hour COLL 101 College Orientation (1) Communications 9 hours Written Communications (6 hours) **ENGL** 101* ENGL 102* ENGL 203* Oral Communications (3 hours) COMM 104* **Mathematics** 3 hours MATH 104 Science 5 hours **PHYS** 101 Civics 3 hours HIST 106*, 107* **PLSC** 103* Required Technical Courses 15 hours BSAD 115 Computer Concepts (3) - OR - BSAD 125 DRFT 105 Architectural Drawing (3) DRFT 202* Machine Design (3) DRFT 203* Tool & Die Design (3) DRFT 280 Drafting and Design Internship (3) Approved Electives 6 hours 101 Intro to Electronics (3) CNS DRFT 102 Descrip Geometry (3) DRFT 120* Basic Civil Drafting (3) DRFT 217 Advanced CAD/Solid Works (3) DRFT 220* Geometric Dimen Toler (3) WELD 113 Intro to Welding (3) - OR - WELD 151 Other Electives Approved by Program Director

Suggested Plan of Study

FIRST YEAR

DRFT DRFT	101 103 115	Intro to Eng Drawing & Print Reading Technical Drawing Basic Computer Aided Drafting Technical Math	3 3 3 3 3 12
DRFT DRFT	115 105 141	Computer Concepts Architectural Drawing Assembly Drawings Intermediate CAD (2nd 8 weeks)	Hours 3 3 3 3
		Advanced CAD (Inventor) (2 nd 8 wee TOTAL n Computer Aided Drafting Certificat	15

SECOND YEAR

Fall Semester	Hours
COLL 101 College Orientation	1
COMM 104 Fundamentals of Speech	3
PHYS 101 Survey of Physical Science	5
Approved Elective	3
Approved Written Communications Course	3
TOTAL	15
Spring Semester	Hours
DRFT 202 Machine Design	3
DRFT 203 Tool and Die Design	3
Approved Civics Course	3 3 3
Approved Elective	
Approved Written Communication	3
TOTAL	15
Summer Semester	Hours
DRFT 280 DRFT Internship	3
TOTAL	3
Graduate with Drafting & Design Technology AAS	S
Total CERTIFICATE Hours Required	18
Additional Hours Needed for AAS	42
Total AAS Hours Required	60

^{*}Prerequisite requirement



CERTIFICATE Computer Aided Drafting (CAD) Technician

		Done	Curr	TO GO		Done	Curr	TO GO
Major Courses	18 hours							
DRFT	101 Intro to Eng Drwg & Print Reading (3)							
DRFT	103 Technical Drawing (3)							
DRFT	115 Basic Computer Aided Drafting (3)							
DRFT	141 Assembly Drawings* (3)							
DRFT	205 Intermediate Computer Aided Drafting* (3)							
DRFT	215 Advanced Computer Aided Drafting* (3)				OR DRFT 217 Solidworks			

Drafting & Design Technology										
		Draiting					inology			
			Done	Curr	To do			Done	Curr	To d
Orient		1 hour								
	COLL	101	<u> </u>							
Comm	unications	9 hours								
Written Communications (6 hours)						Communications (3 hours)				
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
	ENGL	203*								
Mathe	matics	3 hours								
	MATH	104* Technical Mathematics								
Scienc	e	5 hours	Τ							
	PHYS	101 Survey of Physical Science								
Civics		3 hours	Τ							
	HIST	106*				PLSC	103*, 104*			
	HIST	107*								
Requi	red Technic	cal Courses 30 hours				Appro	ved Electives 9 hours			
7	BSAD	115 Computer Concepts (3)				CNS	101 Intro to ⊟ectronics (3)			
OR	BSAD	125 Business Computer Apps (3)				DRFT	102 Descrip Geometry (3)			
	DRFT	101 Engineering Drawing (3)				DRFT	120 Basic Civil Drafting* (3)			
	DRFT	103 Technical Draw ing* (3)				DRFT	215 Advanced CAD* (3)			
	DRFT	105 Architectural Draw ing* (3)				DRFT	217 Solidw orks* (3)			
	DRFT	115 BASIC CAD (3)				DRFT	220 Geometric Dimen Toler* (3)			
	DRFT	141 Assembly Draw ings* (3)				WELD	. ,			
	DRFI	, , ,				OR	WELD 151			
	DRFT	202 Machine Design* (3)				1	<u> </u>			1
		202 Machine Design* (3) 203 Tool & Die Design* (3)				Other E	∃ectives Approved by Program			
	DRFT	- , ,				Other E	Director			

 Programs of Study
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 2019-20

ASSOCIATE OF ARTS DEGREE

Fire Science Certificate

The Fire Science program at Crowder College Cassville prepares the student to enter an exciting career as a fire fighter. Courses will prepare students to complete State of Missouri Certification examinations. Upon successful passing of those examinations, students can be hired as an entry-level fire fighter at a Fire Department that recognizes State of Missouri qualifications.

Program of Study

Fire Scien	ce Majo	16 hours	
COLL	101	College Orientation (1)	
FSCI	111	Firefighter I & II (6)	
EMT	101*	Emergency Med Tech (9)	

Suggested Plan of Study

FIRST YEAR

		FIRST YEAR		
Fall Sem	estei	•		Hours
COLL	101	College Orientation		1
FSCI	111	Firefighter I & II		6
EMT	101	Emergency Med Tech		9
			TOTAL	16
		Total Hours	Required	16

CROWDER		ERT	ATE nce			
Students must earn	16 hours for this certificate.		To do	Done	Curr	To do
Orientation COLL	101 College Orientation (1)					
Major Courses	15 hours					
FSCI EMT	111 Firefighter I & II (6) 101 Emergency Med Tech* (9)		 			
Livii	To T Line gency wed recit (9)					

General Studies AA

Students undecided about their major area of emphasis or career goals are urged to follow the General Studies curriculum. With the help of counseling from Student Services and consultation with an assigned faculty advisor, students should be able to transfer or graduate with a better idea of individual career strengths. For best results, general studies students should contact the four-year institution to which they plan to transfer while a sophomore.

Program of Study

Orientatio			1 hour
COLL	101		
Commun			9 hours
	Communications (6 hou	ırs)	
ENGL	101*		
ENGL Oral Co.	102* mmunications (3 hours)		
COMM	,		
Humaniti Students (prefixes	should select classes from	om two di	9 hours fferent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102
FREN	101	TA	205
Mathema MATH	<i>tics</i> 125*, 130*, 135*		3 hours
Science			7 hours
	s must meet the seven ho from different disciplines b		
Lab		Non -La	ab
BIOL	101, 110, 120	PHYS	105
BIOL	152*, 252*		
CHEM	101, 104, 111*		
GEOL	-, -		
PHYS	101, 190*		
	d Behavioral Science s should select classes fro	m two di	9 hours fferent disciplines
(prefixes	<i>'</i>		
Civics -			
HIST	106*, 107*	ECON	- , -
PLSC	103*	GEOG	111
		PSYC	101, 211
		SOC	101
Any additi	E Electives ional 5 credit hours from o used as Core electives it		5 hours sted above. Courses under another section of

Courses cannot be used as electives if counted under another sec-

this Program of Study.

Approved Electives

tion and must be numbered 100 or higher.

Suggested Plan of Study

FIRST YEAR		
Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Spee ENGL 101 English Composition I Approved Civics Course Approved General Studies Elective Approved Mathematics Course		1 3 3 3 3 3 4 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Spring Semester ENGL 102 English Composition II Approved GE Core Elective Approved General Studies Elective Approved Humanities Course Approved Science Course		Hours 3 2-3 3 3 3-5 14-17
SECOND YEAR	R	
= " o		
Fall Semester Approved GE Core Elective Approved General Studies Elective Approved General Studies Elective Approved Humanities Course Approved Science Course		Hours 2-3 3 3 3 1-5 14-17
Approved GE Core Elective Approved General Studies Elective Approved General Studies Elective Approved Humanities Course Approved Science Course Spring Semester Approved General Studies Elective Approved General Studies Elective Approved Humanities Course Approved Soc & Behavioral Sci Cou Approved Soc & Behavioral Sci Cou	TOTAL	2-3 3 3 3 3-5

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

18 hours

o CR	OWDER		ASSOC	IAT	ЕΟ	FA	RTS	DEGREE			
CO	OLLEGE			Ge	nera	al S	tudie	es es			
eneral	Education C	ore		Done	Curr	To do)		Done	Curr	To do
Orien	tation		1 hour								
	COLL	101									
Comr	nunications		9 hours	Т							
	Written (Communications	s (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*					COMM	104*			
	ENGL	102*, 104*									
Huma	anities		9 hours	T	T T	Т	T				
Traina	ART	101, 106	3 Hours				HIST	101*, 102*			
	ASL	101, 102*					MUSC	101			
	ENGL	109*, 222*, 225	*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240					SPAN	101, 102*			
	FREN	101	,				TA	205			
		-									
Mathe	ematics		3 hours								
	MATH	125*, 130*, & 13	35*								
Scien	ice		7 hours								
00.0	Lab		7 7.00.0				Non-La	1 b			
	BIOL	101, 110, 120		1				105			
	BIOL	152*, 252*									
	CHEM	101, 104, 111*									
	GEOL	115, 210*									
	PHYS	101, 190*									
Socia		ioral Science	9 hours								
	Civics (3							00.44 0004			
	HIST	106*					ECON	201*, 202*			
	HIST	107*					GEOG	111			
	PLSC	103*, 104*					PSYC SOC	101, 211* 101			
							300	101			
	ore Elective		5 hours								
		dit hours from cou									
above.	. Courses car	nnot be used as Co	ore electives if								
		er section of this I	Program of								
Study.											
A	arrad Flantin		40 haves	(Ca.			4 h a a a	ad an algorithms if any otad your days			
Appro	oved Electiv	e:	18 hours	-				ed as electives if counted under a	nomer se	Cuon	
						To do		100 or higher)	Done	Curr	To d
				Done	Cuii	10 00	, 		Done	Cuii	10 0
-											
				 			-				
							-				
				1							
				 							
				1							
									l l		

Graphic Design AA

The Associate of Arts Degree in Graphic Design provides the career student with the basic and comprehensive tools of art and design foundations. With a solid academic structure from Crowder College, students can transfer to four-year institutions where bachelor's degrees are offered in graphic design, digital media and computer arts. Elective courses should be determined by contacting the college and department to which students wish to transfer. The following program is suggested if students have not yet chosen the institution to which they plan to transfer following graduation.

Program of Study

Orientatio	on		1 hour
COLL	101		
Commun			9 hours
	Communications (6 ho	urs)	
ENGL	101*		
ENGL	102*		
COMM	ommunications (3 hours)	
Humaniti			O hours
		om two d	9 hours
(prefixe	s should select classes fros)	om two u	•
ART	101, 106	HIST	101*, 102*
ASL	,	MUSC	101
_	109*, 222*, 225*	PHIL	,,
	230*, 235*, 240*, 245*		- , -
FREN	101	TA	205
Mathema			3 hours
	125*#, 130*, 135*		
Science			7 hours
courses	s must meet the seven ho from different disciplines		
	with a lab		
Lab	404 440 400	Non-La	
BIOL	- , -, -	PHYS	105
BIOL CHEM	152*, 252* 101, 104, 111*		
	* *		
GEOL PHYS	·		
_	d Behavioral Science		9 hours
	s should select classes from	om two d	
(prefixe			
Civics ((3 hours)		
HIST	106*, 107*	ECON	201*, 202*
PLSC	103*	GEOG	111
		PSYC	101, 211*
		SOC	101
GE CORE	Electives		5 hours

GE CORE Electives

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Co	urses		18 hours
ART	189 Photography -or-	ART	191 Photoshop
ART	190 Illustrator		
ART	192* InDesign & Web		
ART	193* Typography -or-	ART	195* GD Animation
ART	194* Portfolio		
Select o	ne (1) of the following:		
ART	103, 104, 105, 106	ART	205, 206*, 207*, 210*,
ART	107, 110, 111, 119*	ART	211, 219*

^{# -} Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester ART 190 Graphic Design I COLL 101 College Orientation ENGL 101 English Composition I MATH 125 Quantitative Reasoning MUSC 101 – OR – TA 205 Approved GE Core Elective	Hours 3 1 3 3 3 16
Spring Semester ART 191 Graphic Design II COMM 104 Fundamentals of Speech ENGL 102 English Composition II Approved ART Elective Approved Science Course TOTAL	Hours 3 3 3 3 5 17
SECOND YEAR	
Fall Semester ART 192 Graphic Design III ART 195* - OR - ART 193* Approved GE Core Elective Approved Science Course Approved Social & Behavioral Sci Course TOTAL	Hours 3 3 2 3-5 3 14-16
Spring Semester ART 194 Graphic Design IV HIST 106 – OR – PLSC 103, 104 Approved Humanities Course Approved Humanities Course Approved Social & Behavioral Sci Course TOTAL	Hours 3 3 3 3 3 15
TOTAL HOURS REQUIRED	62-64

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

CROW	EGE		Gra	nhi	c Da	esigi	า			
				T			<u> </u>			I
neral Edu				Curr	To do			Done	Curr	To d
Orientatio	COLL	1 ho	our							
	COLL	101								
Communi	_	9 hou								
		Communications (6 hour	s)				communications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
Humanitie	es	9 hou	ırs	1		Π				
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathema		3 hou	irs			NAA TI I	420* 425*			
	MATH	125* (Recommended)				MATH	130*, 135*			
Science		7 hou	ırs							
	Lab					Non-La	ab			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								<u> </u>
Social and	d Behavi	oral Science 9 hou	ırs	T						
000/4/ 4//		'3 hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				PSYC	101, 211*			
						SOC	101			
GE Core I	Electives	5 hou	irs							
Any additio	nal 5 credi	t hours from courses listed a	bove.							
Courses ca	nnot be us	sed as Core electives if count	ted							
under anoth	ner sectior	of this Program of Study.					+			
Major Co		18 hou	irs							
		ed Courses (15 hours)					ved Electives (3 hours)			
	ART	189 Photography (3)					One of the following:			
	OR	ART 191 Photoshop (3)				ART	103, 104, 105, 106, 107			-
	ART	190 Illustrator (3)				ART ART	110, 111, 119* 205, 206*, 207*, 210*, 211*, 219*			
	ART	192 InDesign & Web* (3) 193 Typography* (3)		-		AKI	203, 200, 207, 210, 211", 219"			
							The state of the s		1	ı
	OR	ART 195 GD Animation (3)								

History AA

History majors are directed toward teaching, social services, and law. Requirements for an Associate of Arts Degree in History include the American History and Western Civilization survey courses and the completion of the general education core.

Program of Study

Orientation 1 hour COLL Communications 9 hours Written Communications (6 hours) **ENGL** 101* **ENGL** 102* Oral Communications (3 hours) COMM 104* Humanities 9 hours Students should select classes from two different disciplines (prefixes) ART 101, 106 HIST 101*, 102* **ASL** 101, 102* MUSC 101 **ENGL** 109*, 222*, 225* **PHIL** 101*, 121, 201*, 202* **ENGL** 101, 102* 230*, 235*, 240*, 245* SPAN **FREN** 101 TA 205 Mathematics 3 hours **MATH** 125*#, 130*, 135* Science 7 hours Students must meet the seven hour requirement by selecting two courses from different disciplines (prefixes) and at least one course with a lab Non-Lab Lab **BIOL** 101, 110, 120 PHYS 105 **BIOL** 152*. 252* CHEM 101, 104, 111* **GEOL** 115, 210* **PHYS** 101, 190* Social and Behavioral Science 9 hours Students should select classes from two different disciplines (prefixes) Civics - 3 hours **PLSC** 103*# ECON 201*# Additional 3 Hours **GEOG 111#** ECON 202 PSYC 101#, 211* SOC 101 GE CORE Electives 5 hours Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study Major Courses 18 hours Required Courses (12 hours) HIST 101* HIST 106* 102* HIST HIST 107* Approved Electives (6 hours) **ECON** 201*, 202* **PSYC** 101 SOC 101 **GEOG** 111 PHIL 121

- Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition I HIST 106 U.S. History I MATH 125 Quantitative Reasoning Approved Soc & Behavioral Science Course TOTAL	Hours 1 3 3 3 3 3 16
Spring Semester ENGL 102 English Composition II HIST 107 U.S. History II PLSC 103 Nat, State, & Local Gov't Approved Humanities Course Approved Science Course TOTAL	3 3 3 3 3 3-5 15-17
SECOND YEAR	
Fall Semester HIST 101 Western Civilization I Approved Elective Approved Humanities Course Approved Science Course TOTAL	Hours 3 3 3 1 3-5 12-14
Spring Semester HIST 102 Western Civilization II Approved Elective Approved GE Core Elective Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 3 3 5 3 7 17
TOTAL HOURS REQUIRED	60-64
*Droroquicito required	

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

CROW COLI	LEGE						DEGREE			
					stor	y			1.	
eneral Edu			Done	Curr	To do			Done	Curr	To c
Orientatio		1 hour								
	COLL	101				_		_		_
Communi	ications	9 hours								
	Writter	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								辶
Humanitie	es	9 hours						$\overline{}$		
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathama	4100	3 hours								
Mathema	MATH	125* (Recommended)				MATH	130*, 135*			
	100 (111	120 (Recommended)				100 (11 1	100 , 100			
Science		7 hours								
	Lab					Non-La				
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								_
Social and	d Behavi	oral Science 9 hours								
		ri Constitution (3 hours)								
	PLSC	103*, 104*				ECON	201*			
		s of the following:			_	GEOG	111			
	ECON	202*				PSYC	101, 211*			
	SOC	101		<u></u>						
GE Core	Electives	5 hours								
Any additio	nal 5 cred	it hours from courses listed								
above. Cou	urses can	not be used as Core electives if								
	der anoth	er section of this Program of								
Study.										
Major Co	urses	18 hours	T	Ī						
.,		ed (12 hours)				Appro	ved Electives (6 hours)			
	HIST	101 Western Civ I* (3)				ECON	201 Prin of Econ I* (3)			
	HIST	102 Western Civ II* (3)				ECON	202 Prin of Econ II* (3)			
	HIST	106 U.S. History I* (3)				GEOG	111 World Regional Geography* (3)			
	HIST	107 LLS History II* (3)			1	DLII	121 World Poligions (3)		1	

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PHIL PSYC

SOC

121 World Religions (3)

101 Gen Psychology (3) 101 Gen Sociology (3)

HIST

107 U.S. History II* (3)

Journalism and Public Relations AA

Career fields include mass media (newspapers, radio, TV, magazines), internet publications, and public relations, advertising, marketing, and human resources. In all fields, key job skills focus on effective communication by writing, speaking, or visually communicating. Crowder offers basic course work and experience through publications and hands-on activities. Transfer to a four-year college is recommended. For best transfer, students should contact the college of choice. For those seeking a job directly after graduating, the internship in the selected career field is recommended.

Program of Study

Orientatio COLL			1 hour
			0.65
Communi		a.l	9 hours
	Communications (6 hou	rs)	
ENGL	101*		
ENGL	102*		
	mmunications (3 hours)		
COMM	104*		
Humanitie		m two diff	9 hours
(prefixes	s should select classes fro	m two am	erent disciplines
ART	, 101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	
ENGL	- , -	PHIL	101*, 121, 202*
ENGL	, ,		
FREN	230*, 235*, 240*, 245* 101	TA	- ,
		IA	205
Mathemat MATH			3 hours
	125*#, 130*, 135*		
Science	must most the source has	ır rocuir-	7 hours
	s must meet the seven hor from different disciplines		
	vith a lab	prenixes	and at least one
	Lab		Non-Lab
BIOL	101, 110, 120	PHYS	105
BIOL	152*, 252*		
CHEM			
GEOL			
ULUL	115. Z10"		
PHYS	115, 210* 101. 190*		
PHYS	101, 190*		9 hours
PHYS Social and	101, 190* d Behavioral Science	m two diff	9 hours
PHYS Social and	101, 190* d Behavioral Science s should select classes fro	m two diff	
PHYS Social and Students	101, 190* d Behavioral Science s should select classes from	m two diff	
PHYS Social and Students (prefixes	101, 190* d Behavioral Science s should select classes from	m two diff	
PHYS Social and Students (prefixes Civics (3)	101, 190* d Behavioral Science s should select classes from s) 3 hours)		erent disciplines
PHYS Social and Students (prefixes Civics (3) HIST	101, 190* d Behavioral Science s should select classes from hours) 106*, 107*	ECON	erent disciplines 201*, 202*
PHYS Social and Students (prefixes Civics (3) HIST	101, 190* d Behavioral Science s should select classes from hours) 106*, 107*	ECON GEOG	erent disciplines 201*, 202* 111
PHYS Social and Students (prefixes Civics (3 HIST PLSC	101, 190* d Behavioral Science s should select classes fro s) 3 hours) 106*, 107* 103*	ECON GEOG PSYC	201*, 202* 111 101, 211* 101
PHYS Social and Students (prefixes Civics (3 HIST PLSC	101, 190* d Behavioral Science s should select classes fro s) 3 hours) 106*, 107* 103*	ECON GEOG PSYC SOC	201*, 202* 111 101, 211* 101 5 hours
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any addition	101, 190* d Behavioral Science s should select classes from hours) 106*, 107* 103* Electives anal 5 credit hours from coused as Core electives if a	ECON GEOG PSYC SOC	201*, 202* 111 101, 211* 101 5 hours ed above. Courses
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any addition cannot be of this Pro-	101, 190* d Behavioral Science s should select classes from s) 3 hours) 106*, 107* 103* Electives onal 5 credit hours from coused as Core electives if orgram of Study	ECON GEOG PSYC SOC	201*, 202* 111 101, 211* 101 5 hours ed above. Courses
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any addition cannot be of this Pro- Major Cool	101, 190* d Behavioral Science s should select classes from s) 3 hours) 106*, 107* 103* Electives onal 5 credit hours from coused as Core electives if orgram of Study	ECON GEOG PSYC SOC ourses liste	201*, 202* 111 101, 211* 101 5 hours ed above. Courses
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any addition cannot be of this Program COMM	101, 190* d Behavioral Science s should select classes from s) 106*, 107* 103* Electives and 5 credit hours from accused as Core electives if agram of Study urses 101	ECON GEOG PSYC SOC ourses liste counted un	201*, 202* 111 101, 211* 101 5 hours ed above. Courses nder another section 15 hours
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any addition cannot be of this Prod COMM COMM	101, 190* d Behavioral Science s should select classes from s) 106*, 107* 103* Electives and 5 credit hours from accused as Core electives if agram of Study urses	ECON GEOG PSYC SOC ourses liste	201*, 202* 111 101, 211* 101 5 hours ed above. Courses nder another section
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any addition cannot be of this Prog Major Cou COMM	101, 190* d Behavioral Science s should select classes from s) 106*, 107* 103* Electives and 5 credit hours from accused as Core electives if agram of Study urses 101	ECON GEOG PSYC SOC ourses liste counted un	201*, 202* 111 101, 211* 101 5 hours ed above. Courses nder another section 15 hours
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any additic cannot be of this Prod COMM COMM COMM	101, 190* d Behavioral Science s should select classes from s) 106*, 107* 103* Electives anal 5 credit hours from accused as Core electives if a gram of Study urses 101 102	ECON GEOG PSYC SOC ourses liste counted un	201*, 202* 111 101, 211* 101 5 hours ed above. Courses nder another section 15 hours
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any additic cannot be of this Prod COMM COMM COMM	101, 190* d Behavioral Science s should select classes from hours) 106*, 107* 103* Electives onal 5 credit hours from coused as Core electives if a gram of Study urses 101 102 111*	ECON GEOG PSYC SOC ourses liste counted un	201*, 202* 111 101, 211* 101 5 hours ed above. Courses nder another section 15 hours 151*
PHYS Social and Students (prefixes Civics (3 HIST PLSC GE CORE Any additic cannot be of this Prod COMM COMM COMM Approve	101, 190* d Behavioral Science s should select classes from the shours of the should be should	ECON GEOG PSYC SOC burses liste counted un COMM	201*, 202* 111 101, 211* 101 5 hours ed above. Courses nder another section 15 hours 151* 3 hours

- Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation COMM 102 Intro to Public Relations COMM 104 Fundamentals of Speech COMM 150 Intro to Journalism ENGL 101 English Composition MATH 125 Quantitative Reasoning TOTAL	Hours 1 3 3 3 3 3 16
Spring Semester COMM 101 Intro to Mass Communication COMM 111 Magazine Production COMM 151 News/Feature Writing ENGL 102 Advanced English Comp Approved Soc & Behavioral Science Elective TOTAL	Hours 3 3 3 3 3 15
SECOND YEAR	
Fall Semester Approved Civics Course Approved GE Core Elective Approved Humanities Course Approved Humanities Course Approved Science Course TOTAL	Hours 3 2-3 3 3 3-5 14-17
Approved Civics Course Approved GE Core Elective Approved Humanities Course Approved Humanities Course Approved Science Course	3 2-3 3 3 3-5
Approved Civics Course Approved GE Core Elective Approved Humanities Course Approved Humanities Course Approved Science Course TOTAL Spring Semester Approved GE Core Elective Approved Humanities Course Approved Journalism Elective Approved Science Course Approved Science Course Approved Soc & Behavioral Science Course	3 2-3 3 3 3-5 14-17 Hours 2-3 3 3-5 3-5 3

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

CROV	VDER	ASSOC	IAT	ЕΟ	FΑ	RTS	DEGREE			
COLI	LEGE	Journal	ism	and	l Pu	ıblic	Relations			
eneral Edu	cation Co		_	Curr				Done	Curr	То
Orientatio	on	1 hour								Т
	COLL	101								
Communi	ications	9 hours						Т		
	Written	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
Humanitie	es	9 hours	T					\top		Т
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathema	tics	3 hours						T		
	MATH	125* (Recommended)				MATH	130*, 135*			
Science		7 hours								\blacksquare
Colciloc	Lab	, moure				Non-La	a b			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*					100			_
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								
Social an		oral Science 9 hours	I							F
Gociai airi	Civics (3									
	HIST	106*				ECON	201*, 202*			-
	HIST	107*				GEOG	111			_
	PLSC	103*, 104*				PSYC	101, 211*			-
	1 200	100 , 101				SOC	101			_
GE Core	Electives	5 hours	T	1		1				Ħ
		hours from courses listed								
-		ot be used as Core electives if								-
		r section of this Program of								-
Study.	aci anome	1 3cction of this 1 regrammer								
Major Co	urene	15 hours	1	<u> </u>		Annro	ved Electives 3 hours			Ħ
major co	COMM	101 Intro to Mass Comm (3)				COMM	160 Intro to Broadcast (3)			
	COMM	102 Intro to Pub Rel (3)				COMM	220 Photocomm I (3)			-
	COMM						` '			-
		111 Magazine Prod I* (3)				COMM	225 Internship* (3)			-
	COMM	150 Intro to Journalism* (3)				COMM	250 Comp Jour & Prod* (3)			-
11:-1:1	COMM	151 News and Feature* (3)				COMM	251 Journalistic Edit* (3)			-
		nd that Spanish be taken to								
fu	itili a hum	anities requirement								_

Programs of Study 138 V1.04 **2019-20**

Mathematics AA

A major in mathematics is designed for students planning to teach mathematics at the secondary school level as well as for those desiring to work as professional mathematicians outside of education. Students entering this program should enjoy working with logic and numbers and should enjoy the challenge of applying mathematics to the sciences and related areas. A bachelor degree is necessary as a minimum requirement for employment in these areas. Students with mathematics backgrounds which require pre-calculus courses may need to plan for more than four semesters to complete this program.

Program of Study

Orientatio	on		1 hour
COLL	101		
Communi	ications		9 hours
Written	Communications (6 hou	rs)	
ENGL	101*		
ENGL	102*		
	mmunications (3 hours)		
COMM	104*		
Humanitie			9 hours
	s should select classes fro	m two dif	ferent disciplines
(prefixes	,		
ART	101, 106	HIST	- , -
	101, 102*	MUSC	
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
	230*, 235*, 240*, 245*	SPAN	- , -
FREN	101	TA	205
Mathemat			3 hours
	150*#, 160*#		
Science			7 hours
	s must meet the seven hou	•	, ,
	from different disciplines (prefixes)	and at least one course
with a la			M I - I-
DIOL	Lab	PHYS	Non-Lab 105
BIOL BIOL	101, 110, 120 152*, 252*	РПТО	105
CHEM	,		
_	115, 210*		
PHYS			
PHYS			
	d Behavioral Science		9 hours
	s should select classes fro	m two dif	
(prefixes			·
Civics (3 hours)		
HIST	106*, 107*	ECON	201*, 202*
PLSC	103*	GEOG	111
		PSYC	101, 211*
		SOC	101
GE CORE	Electives		5 hours
Any addition	onal 5 credit hours from co	ourses list	ted above. Courses
	used as Core electives if o	counted u	ınder another section of
this Progra	am of Study		
Major Cou			17-19 hours
_	ed Courses (14 hours)		
COMP	111*	MATH	202*
MATH	201*		

PHYS

210*

- Preferred class for this degree option

Approved Electives (3-5 hours)

MATH 210*

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Speech COMP 111 Intro to Programming ENGL 101 English Composition I MATH 150 Calculus I, Part 1 Approved Civics Course TOTAL	Hours 1 3 4 3 2 3 16
Spring Semester ENGL 102 English Composition II MATH 160 Calculus I, Part 2 PHYS 190 General Physics I Approved GE Core Elective Approved Humanities Course TOTAL	3 3 5 3 7
SECOND YEAR	
Fall Semester MATH 201 Calculus II Approved GE Core Elective Approved Humanities Course Approved Science Course Approved Soc & Behavioral Science Course TOTAL	5 2 3 3-5 3
Spring Semester MATH 202 Calculus III Approved Elective Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	5 3-5 3 3 14-16
TOTAL HOURS REQUIRED	63-65

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

CROW	DER	ASSOC	ATE	OF	AR	TS D	EGREE			
COLL	EGE		Ma	thei	mat	ics				
General Educ	cation Co	re		_	To do			Done	Curr	To do
Orientatio		1 hour								
	COLL	101								
Communi	cations	9 hours		Т						
	Written	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								<u></u>
Humanitie	s	9 hours		T	I					
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*					101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				•	101, 102*			
	FREN	101				TA	205			
88.41	4*					1				
Mathemat		5 hours								
	MATH	150* & 160* (Required)		1						
Science		7 hours								
	Lab					Non-La	ab			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*			.					
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101 (under review)								
	PHYS	190* (Required)								
Social and	l Behavio	oral Science 9 hours		Т	Т					
		3 hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				PSYC	101, 211*			
						SOC	101			
GE Core E	lectives	5 hours								
		-								
		t hours from courses listed above.								
		sed as Core electives if counted								
under anoth	ier section	of this Program of Study.								
Major Cou	ırses	17-19 hours								
, 5.7		ed Courses (14 hours)				Appro	ved Electives (3-5 hours)			
	COMP	111 Intro to Computer Science* (4)					210 Diff Equations* (3)			
	MATH	201 Calculus II* (5)				PHYS	210 Gen Physics II* (5)			
	MATH	202 Calculus III* (5)								

CERTIFICATE

Nursing (Practical) Certificate

Crowder College offers a 56 credit hour (1360 clock hours) Practical Nursing (PN) program at the Nevada instructional site. The Practical Nursing program is fully approved by the Missouri State Board of Nursing (MSBN). This is a selective admission program. Candidates applying to the PN program must have a valid high school diploma or equivalent (such as GED or HiSet), complete the TEAS pre-entrance examination, have good moral character as evidenced by references, verify a criminal background check free of Class A or B felony, enroll in Family Care Safety Registry and not be on Employee Disqualification List, have adequate finances to complete the program and reliable transportation plus the ability to perform required functional abilities. Applications are open by February 15 each year and the application cycle is open until seats are filled. First cut-off for selection of students is April 15 with additional applications accepted on a space available basis only until July 15. This two-semester program follows the Fall/Spring schedule of the college. Students can obtain an application from www.crowder.edu/Nursing/PracticalNursing or by contacting the Nursing Department at: NevadaNursing@crowder.edu.

Program of Study

Certificate Courses 56 hours 150 Personal & Vocational Concepts I PΝ PN151 PN Anatomy & Physiology PΝ 152 Fundamentals in Nursing I PN153 Fundamentals in Nursing II PN154 Medical Surgical Nursing I PN155 Introduction to Pharmacology & Math for Meds PΝ 156 Gerontology PΝ 250 Fundamentals in Nursing III PΝ 251 Medical Surgical Nursing II ΡN 252 Maternity Nursing PN253 Pediatric Nursing PΝ 254 Personal & Vocational Concepts II PΝ 255 Mental Health

Suggested Plan of Study

FIRST SEMESTER

PN 150 Personal & Voc Concepts I (1st 8 wk) PN 151 PN Anatomy & Phys (1st 8 wk) PN 152 Fundamentals in Nursing I (1st 8 wk) PN 153 Fundamentals in Nursing II (2nd 8 wk) PN 154 Med Surg Nursing I (2nd 8 wk) PN 155 Intro to Pharm & Math/Meds (2nd 8 wk) PN 156 Gerontology (2nd 8 wk)	ours		
PN	150	Personal & Voc Concepts I (1st 8 wk)	3
PN	151	PN Anatomy & Phys (1st 8 wk)	4
PN	152	Fundamentals in Nursing I (1st 8 wk)	4
PN	153	Fundamentals in Nursing II (2nd 8 wk)	5
PN	154	Med Surg Nursing I (2nd 8 wk)	4
PN	155	Intro to Pharm & Math/Meds (2nd 8 wk)	5
PN	156	Gerontology (2nd 8 wk)	3
		TOTAL	28

SECOND SEMESTER

Spring S	emes	ster	Hours
PN		Fundamentals in Nursing III (1st 8 wk) 8
PN	251	Med Surg Nursing II (1st 8 wk)	[^] 10
PN	252	Maternity Nursing (1st 8 wk)	3
PN	253	Pediatric Nursing (2nd 8 wk)	2
PN	254	Personal & Voc Conc II (2nd 8 wk)	2
PN	255	Mental Health (2nd 8 wk)	3
		TOTAL	28
		Total Hours Required	56

CROWDER COLLEGE	CERTIFICATE									
	Nursing (Practical) Done Curr To do Done Curr								Curr T	o d
Major Courses	56 hours									_
PN	150 Personal & Vocational Concepts I (3)									
PN	151 PN Anatomy & Physiology (4)									
PN	152 Fundamentals in Nursing I (4)									
PN	153 Fundamentals in Nursing II (5)									
PN	154 Medical Surgical Nursing I (4)									
PN	155 Introduction to Pharm & Math for Meds (5)									
PN	156 Gerontology (3)									
PN	250 Fundamentals in Nursing III (8)									
PN	251 Medical Surgical Nursing II (10)									
PN	252 Maternity Nursing (3)									
PN	253 Pediatric Nursing (2)									
PN	254 Personal & Vocational Concepts II (2)									
PN	255 Mental Health (3)				_			ш		
Comments:										_
Signature:					Date:					

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Nursing (Registered) AS

The purpose of the Crowder College Nursing program is to prepare graduates who can demonstrate entry-level competencies as generalist professional nurses and to provide a foundation for continued learning. The format provides a multiple entry program where licensed practical nurses can enter with advanced standing or students may enter with no previous nursing education. The program is approved by the Missouri State Board of Nursing and nationally accredited by the Accreditation Commission for Education in Nursing (ACEN). Graduation from the nursing program does not guarantee eligibility to write the licensure exam. Eligibility is determined on an individual basis by Missouri State Board of Nursing based on the Missouri Nursing Practice Act section 335.066 or as recognized by the state in which the graduate desires to license.

The nursing faculty ascribe to adult learning theory in a conceptual learning environment where the adult learner must be an active participant in the educational process. Registered nurses function as an integral part of the health care team to deliver quality, safe, and patient-centered care using clinical judgment that is built on evidence-based practice. The nursing program is a multiple entry, limited admission program. All classes applied toward the Associate of Science in Nursing degree (both general education and core nursing courses) must be passed with a C or better. A grade point average of 2.75 on courses required for the degree and a minimum ACT composite score of 19 are required for both levels of students to be eligible for admission. Students without previous nursing education (those who are NOT licensed practical nurses) enter the program at Level I. These students complete Anatomy & Physiology I (BIOL 152) prior to beginning the nursing program. All accepted nursing students will be required to have an active CNA, RMA, CMA or EMT certification or Paramedic license prior to beginning the nursing courses (Missouri or equivalent). Applications for Level I are accepted from May 1 to September 1 for the Neosho and Cassville program that begins in January. Applications are accepted from October 15 to February 15 for the Nevada and McDonald County Nursing program which begins in August.

Licensed practical nurses are given credit for first year nursing classes and may enter the program at Level II. LPN's entering with advanced standing must have a valid license to practice (and be eligible for Missouri licensure), be IV certified, and must have completed at least Anatomy and Physiology I (BIOL 152) and II (BIOL 252) and Microbiology (BIOL 220) before beginning the second level nursing sequence. Applications for Level II are accepted from May 1 to September 1 for the Neosho and Cassville program and October 15 to February 15 for the Nevada and McDonald County program.

Program of Study

Orientatio	nn .			1 hour
COLL				i iloui
Commun	ications			6 hours
Writter	Communications (3 hrs)		
ENGL	101*			
Oral Co	ommunications (3 hrs)			
COMM	104*			
Mathema	tics			3 hours
MATH	125*, 130*, 135*			
Science				15 hours
BIOL	152*	BIOL	252*	
BIOL	220*			
Social an	d Behavioral Science			6 hours
Civics	(3 hours)	Additi	ional 3	hours:
HIST	106*, 107*	PSYC	101	
PLSC	103*, 104*	SOC	101	
Nursing (Courses			36 hours
Level I	courses (19 hours)			
NURS	111*	NURS	141*	
NURS	112*	NURS	142*	
NURS	121*	NURS	171*	
NURS	122*	NURS	172*	
-OR	- NURS 201* LPNs Only			
Level I	l courses (17 hours)			
NURS	211*	NURS	242*	
NURS	212*	NURS	271*	
NURS	221*	NURS	290*	
NURS	241*			

^{*}Prerequisite requirement

Suggested Plan of Study

Based On Acceptance to the Program

Program Prerequisites: Anatomy & Physiology I (BIOL 152) – 5 credit hours

Active CNA, RMA or EMT certification or Paramedic license (Missouri or equivalent)

All general education courses must be completed by both Level I & Level II students

Level I & Level II students.	
Pre-Requisite Semester BIOL 152 Human Anatomy & Physiology I COLL 101 College Orientation Approved Mathematics Course PSYC 101—OR—SOC 101 TOTAL	5 1 3 3 12
First Semester	
NURS 111 Health Concepts IA (1st 8 wks) NURS 112 Health Concepts IB (2nd 8 wks) NURS 141 Pharmacology I (2nd 8 wks) NURS 171 Professional Concepts I (1st 8 wks) BIOL 252 Human Anatomy & Physiology II TOTAL	3 2 1 5 14
Second Semester	Hours
BIOL 220 General Microbiology	5
NURS 121 Health Concepts IIA (1st 8 wks)	4
NURS 122 Health Concepts IIB (2nd 8 wks)	4
NURS 142 Pharmacology I (1st 8 wks)	1
NURS 172 Professional Concepts II (2nd 8 wks) TOTAL	1 15
Third Semester	Hours
COMM 104 Fundamentals of Speech	3
NURS 211 Health Concepts IIIA (1st 8 wks)	4
NURS 212 Health Concepts IIIB (2nd 8 wks)	4
NURS 241 Pharmacology III (1st 8 wks)	1 2
NURS 271 Professional Concepts III (2nd 8 wks) TOTAL	14
Fourth Semester	Hours
ENGL 101 English Composition	3
HIST 106, 107 - OR - PLSC 103	3

NURS 221 Health Concepts IV (1st 8 wks) NURS 242 Pharmacology IV (1st 8 wks)

NURS 290 Nursing Capstone (2nd 8 wks)

TOTAL HOURS REQUIRED

1 2

12

67

TOTAL

CROW COLI	EGE .	Mirror	ina	/Da	aiat	~ ~ ~ ~	11			
		Nurs		_		erea	1)		_	
neral Edu			Done	Curr	To do			Done	Curr	To de
Orientatio		1 hour								
	COLL	101								
Commun	ications	6 hours								T
	Written	Communications (3 hours)				Oral C	communications (3 hours)			
	ENGL	101*				COMM	104*			
Mathema	tics	3 hours	T					T		Т
	MATH	125*, 130*, 135*								
0-1										
Science	DIOI	15 hours				DIOI	050*			
	BIOL	152*				BIOL	252*			
	BIOL	220*								
Social and		oral Science 6 hours								
		(3 hours)				And 3	hours of the following:			
	HIST	106*								
	HIST	107*				PSYC	101 (Recommended)			
	PLSC	103*, 104*				SOC	101 (Recommended)			
Nursing C		36 hours								
		courses (19 hours)					ll courses (17 hours)			
	NURS	111 Health Concepts IA* (3)				NURS	211 Health Concepts IIIA* (4)			
	NURS	112 Health Concepts IB* (3)				NURS	212 Health Concepts IIIB* (4)			
	NURS	121 Health Concepts IIA* (4)				NURS	221 Health Concepts IV* (3)			
	NURS	122 Health Concepts IIB* (4)				NURS	241 Pharmacology III* (1)			
	NURS	141 Pharmacology I* (2)				NURS	242 Pharmacology IV* (1)			
	NURS	142 Pharmacology II* (1)				NURS	271 Professional Concepts III* (2))		
	NURS	171 Professional Concepts I* (1)				NURS	290 Nursing Capstone* (2)			
_	NURS	172 Professional Concepts II* (1)								
OR	NURS	201 Transition *(2) LPNs Only								

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Occupational Therapy Assistant AS

The Occupational Therapy Assistant program prepares graduates to demonstrate entry level competencies as an Occupational Therapy Assistant (OTA) and provides a strong foundation for continued learning. The Certified Occupational Therapy Assistant functions as a member of the health care team; working under the supervision of a licensed Occupational Therapist, the Occupational Therapy Assistant helps disabled people of all ages acquire, improve, or regain the ability to do all activities that have meaning, value, or purpose. The OTA curriculum combines biological and behavioral sciences, along with the theory and principles of Occupational Therapy. The program is built to support the standards of the American Occupational Therapy Association and prepares students to sit for the National Board Certification for Occupational Therapy Assistant Exam. The Crowder College Occupational Therapy Assistant Program has applied for accreditation and has been granted Developing Program Status by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is (301) 652-AOTA. Once accreditation of the program has been obtained, its graduates will be eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. Note that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

The Occupational Therapy faculty believes all humans learn: the way an individual responds to and uses the stimuli in their environment determines how and what is learned. The Occupational Therapy Assistant curriculum is delivered through the uses of multiple learning styles and a wide variety of teaching methods. The OTA program is a single entry, limited admission program. Students must have and maintain a 2.75 grade point average. No courses below a grade of C will be accepted. Applications for the OTA program are accepted April 15th – August 1st of each year.

Program of Study

Orientatio	on		1 hour
COLL	101		
Communi	cations		6 hours
Written	Communications (3 hou	ırs)	
ENGL	101*		
Oral Co	mmunications (3 hours)		
COMM	104*		
Humanitie	es		3 hours
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 111
FREN	101	TA	205
Mathemat	tics		3 hours
MATH	125*, 130*, 135*		
Science			10 hours
BIOL	152*		
BIOL	252*		
	d Behavioral Science		6 hours
PSYC	101		
,	3 hours)		
	106*, 107*		
	103		
OTA Cour			44 hours
OTA	101	OTA	221*
OTA	116	OTA	228*
OTA	125	OTA	236*
	131*	OTA	240*
OTA	201*	OTA	245*
OTA	211*	OTA	250*
OTA	218*		

*Prerequisite required

This Suggested Plan of Study is based on course offerings at the Webb City Instructional Site. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic

Suggested Plan of Study FIRST YEAR

Pre-Admission Requirements: Must be completed prior to the spring semester –

	·		
COLL	152 101 104 101	Human Anatomy and Physiology I College Orientation Fundamentals of Speech English Composition General Psychology TOTAL	Hours 5 1 3 3 15
Spring Some BIOL OTA OTA Approv	252 101 116 125	Human Anatomy and Physiology II Prins of Occupational Therapy Prins of Therapeutic Intervention Occupational Therapy Documentation umanities Course TOTAL	5 2 3 2 3 15
	ed C	ester ivics Course lathematics Course TOTAL	3 3 6
		SECOND YEAR	
Fall Sem	estei	•	Hours
OTA OTA OTA	201	Functional Mvmt: Occ & Adaptation Practice: Children & Adolescents Practice: Mental Health TOTAL	3 5 4 12
Spring S			Hours
OTA OTA OTA OTA	221 228	Occupational Therapy Test & FW Prep Practice: Physical Rehabilitation Occ Performance Across Lifespan Occ Perf Issues in Later Adulthood TOTAL	5 3 4 13

THIRD YEAR

Fall Sem	ester	•	Hours
OTA	240	Fieldwork level II A	5
OTA	245	Occupational Therapy Management	2
OTA	250	Fieldwork level II B	5
		TOTAL	12
		TOTAL HOURS REQUIRED	73



ASSOCIATE OF SCIENCE DEGREE Occupational Therapy Assistant

eneral Edu				Curr	To do)		Done	Curr	To c
Orientation		1 hou	ır							
	COLL	101								<u></u>
Commun	ications	6 hour	s							
	Written	Communications (3 hours)				Oral Cor	mmunications (3 hours)			
	ENGL	101				COMM	104*			<u> </u>
Humaniti	es	3 hour	s							
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 111			
	FREN	101				TA	205			
Mathema	tics	3 hour	s					Т		П
	MATH	125*, 130*, 135*								
Science		10 hour	s							
	BIOL	152*								
	BIOL	252*								
Social an	d Behavi	oral Science 6 hour	s					T		
	Civics (3	hours)				Addition	al 3 hours			
	HIST	106*				PSYC	101			
	HIST	107*								
	PLSC	103*, 104*								
OTA Cou	rses	44 hour	s					Т		Т
OTA 101	Principles	of Occ Therapy (2)				OTA 221	Prin of OT Practice: Phys Rehab* (5)			
OTA 116		of Therapeutic Interventions (3)					Occ Perf Across the Lifespan*(3)			
OTA 125		nentation (2)					Occ Perf Issues in Later Adulthood*(4)			
OTA 131		Il Movement: Occ and Adapt* (3)					240 Fieldw ork Level II - A* (5)			
OTA 201		Practice: Child and Adol* (5)					OT Management* (2)			
OTA 211		Practice: Mental Health* (4)					250 Fieldw ork Level II - B* (5)			
							` '			_

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Paramedic Certificate

Paramedical Science AAS

The Paramedical Science degree is designed for the professional paramedic positions in Emergency Medical Services. The accompanying certificate is designed to be offered over two semesters. This program prepares graduates to sit for the Paramedic certification exam. EMT licensure and admission to the program are prerequisites for this degree.

The Paramedic certificate is designed for the professional paramedic positions in Emergency Medical Services. The certificate is designed to be offered over two semesters. This program prepares graduates to sit for the Paramedic certification exam.

Program of Study

D	04:54- 0	40 1
	Certificate Courses	42 hours
EMTP	225 (9)	
EMTP	230* (9)	
EMTP	235* (9)	
EMTP	240* (9)	
EMTP	250* (6)	
Orientation		1 hour
COLL	101	
Communica	ations	9 hours
Written	Communications (6 hours)	
ENGL	101*	
ENGL	102*, 203*	
Oral Co	mmunications (3 hours)	
COMM	104*	
Mathematic	s	3 hours
MATH	125*, 130*, 135*	
Civics		3 hours
HIST	106*, 107*	
PLSC	103*	
Science		9 hours
BIOL	101, 152*	
CHEM	101	
CHEM	104 (Recommended)	
Office Admi	inistration Courses	3 hours
OA	215 (3)	

^{*}Prerequisite requirement

Suggested Plan of Study

FIRST YEAR

FIRST TEAR		
Fall Semester EMTP 225 EMT – Paramedic (1 st 8 EMTP 230 EMT – Paramedic (2 nd 8 T	weeks) weeks)	9 9 9 18
Spring Semester EMTP 235 EMT – Paramedic (1 st 8 EMTP 240 EMT – Paramedic (2 nd 8	weeks) weeks)	9 9 9 18
•		6 6
Graduate with Paramedic Certificate		
SECOND YEAR		
Fall Semester BIOL 101 – OR – BIOL 152 COLL 101 College Orientation EMTP 250 EMT – Paramedic Caps ENGL 101 English Composition I OA 215 Medical Terminology Approved Mathematics Course		ours 5 1 6 3 3 3
Spring Semester CHEM 104 Chemistry for Health Sci COMM 104 Fundamentals of Speecl EMTP 250 EMT – Paramedic Caps ENGL 102 – OR – ENGL 203 Approved Civics Course T Graduate with Paramedical Science A	iences h tone (Optional) OTAL 13-	ours 4 3 6 3 3 19

EMTP 250 can be taken any semester after completion of the paramedic courses, but only needs to be taken one time.

Total AAS Hours Required

42

28

70

Total Paramedic Certificate Hours Required

Additional Hours Needed for AAS

Courses for Certificate	
Additional Courses for AAS Degree	



CERTIFICATEParamedic

		Done	Curr	To do		
Major Courses	42 Hours					
EMTP	225 Paramedic (9)					
EMTP	230* Paramedic (9)					
EMTP	235* Paramedic (9)					
EMTP	240* Paramedic (9)					
EMTP	250* Paramedic Capstone (6)					
Prerequisites: EMT lice	ensure and admission to the Paramedic					
program are prerequis	ites for this program.					
						_
Comments:						
Comments.						
Signature:			-		Date:	
						_

COL	VDER LEGE		Para	med	dica	I Sc	ienc	e			
				_		To do			Done	Curr	To d
Orientatio	on		1 hour								
	COLL	101									
Commun	ications		9 hours	T							
	Written	Communication	s (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*					COMM	104*			
	ENGL	102*, 104*									
	ENGL	203*									
Mathema	tics		3 hours	T							
	MATH	125*									
	MATH	130*									
	MATH	135*									$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
Science			9 hours	Т					Т		
	BIOL	101, 152*					CHEM	104 (Recommended)			
	CHEM	101									
Civics			3 hours	Т					\top		
	HIST	106*					PLSC	103*, 104*			
	HIST	107*									
Paramed	ic Course:	s	42 hours	Т					Т		
	EMTP	225 (9)									
	EMTP	230* (9)									
		235* (9)									
	EMTP										
	EMTP	240* (9)									1
		240* (9) 250* (6)		<u> </u>							
Support (EMTP EMTP	· ` ` `	3 hours	<u> </u>							

CERTIFICATE

Pharmacy Technician Certificate

This certificate program prepares students for employment as Pharmacy Technicians with medical and office skills helpful for initial placement in pharmacy settings and other related occupations; and students have a career path into the Health Care Specialist AAS. Basic communication, computer/Internet skills, ethics and core courses in pharmacy will be completed.

Program of Study

Pharmacy	Tech I	Major Courses	16 hours
BSAD	125	Bus Computer Ap	pps (3) – OR – BSAD 115
COLL	101	College Orientati	on (1)
PHAR	101*	Pharmacy Techn	iques I (3)
PHAR	102*	Pharmacy Techn	iques II (3)
PHAR	110	Pharmacology C	oncepts (3)
PHAR	150	Pharmacy Tech I	nternship* (3)

^{*}Prerequisite requirement

Suggested Plan of Study

FIRST YEAR

S	pring S	emes	ster	Hours
	BSAD	125	OR – BSAD 115 (Pharmacy)	3
	COLL	101	College Orientation	1
	PHAR	101	Pharmacy Techniques I (Pharmacy)	3
			Pharmacy Techniques II (Pharmacy)	3
	PHAR	110	Pharmacology Concepts (Pharmacy)	3
	PHAR	150	Pharmacy Tech Internship (Pharmacy) 3
			TOTAL	16

Total Hours Required 16



CERTIFICATE Pharmacy Technician

Students must earn 16 hours for this certificate.

		Done	Curr	To do			Done	Curr	To do
Orientation	1 hour								
COLL	101 College Orientation (1)								
Major Courses	15 hours								
BSAD	125 Computer Applications (3)				OR	BSAD 115 (3)			
PHAR	101 Pharmacy Techniques I* (3)								
PHAR	102 Pharmacy Techniques II* (3)								
PHAR	110 Pharmacology Concepts (3)								
PHAR	150 Pharmacy Tech Internship* (3)								

Certification Component

Passing a national certification exam is not a requirement for obtaining this certificate or for job placement. However, a national certification exam must be taken as part of the program.

Photography AA

This multi-disciplinary program encompasses the wide variety of career options in the field of photography. Options include photojournalism, fine art photography, and commercial endeavors, which include products, portraiture, and events such as weddings. Photographers can work for an employer, own their own business, and/or work as freelancers.

Program of Study

Orientation COLL			1 hour
Communic			9 hours
	.auons Communications (6 hoเ	ire)	3 Hours
ENGL	101*	113)	
ENGL	102*		
	ommunications (3 hours)		
COMM	, ,		
Humanities	<u> </u>		9 hours
	s should select classes fro	om two dif	
ÄRT	101#, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN		TA	205
Mathemati	cs		3 hours
MATH	125*#, 130*, 135*		
BIOL BIOL	from different disciplines with a lab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190*	(prefixes) PHYS	and at least one Non-Lab 105
	,	om two dif	9 hours ferent disciplines
•	106*, 107*	FCON	201*, 202*
PLSC		GEOG	·
. 200		PSYC	
		SOC	,
GE CORE	Electives		5 hours
,	nal 5 credit hours from cou used as Core electives if co m of Study		
	•		

FIRST YEAR

Fall Semester ART 191 Graphic Design II COLL 101 College Orientation COMM 104 Fundamentals of Speech COMM 220 Photocommunication I ENGL 101 English Composition MATH 125 Quantitative Reasoning TOTAL	Hours 3 1 3 3 3 1 1 6
Spring Semester ART 101 Art Appreciation COMM 231 Photocommunication II ENGL 102 Advanced English Comp Approved Photography Elective Approved Soc & Behavioral Science Course TOTAL	3 3 3 3 3 3 15
SECOND YEAR	
Fall Semester Approved Civics Course Approved GE Core Elective Approved Humanities Course Approved Photography Elective Approved Science Course TOTAL	3 3 3 3 3-5 15-17
Spring Semester	Hours 2
Approved GE Core Elective Approved Humanities Course Approved Photography Elective Approved Science Course Approved Social Science Course TOTAL	3 3 3-5 3

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

Required Courses (9 hours)

191 GD II

COMM 220 Photocomm I

Approved Electives (9 hours)

103

Major Courses

ART

ART

BSAD 150

BMGT 200

COMM 111*

18 hours

COMM 231* Photocomm II

COMM 150*

COMM 225*

COMM 171-173

Suggested Plan of Study

^{# -} Preferred class for this degree option

CROW COLI	EGE	ACCOO					DEGREE			
novel Edu	action Co.					aphy		Dama	C	т.
oneral Edu		re 1 hour	Done	Curr	10 00) 		Done	Curr	10
Orientatio	COLL	101								
	1 - 1	•								_
Communi		9 hours								
		Communications (6 hours)					ommunications (3 hours)			
	ENGL	101*				COMM	104*			-
	ENGL	102*, 104*								
Humanitie	es	9 hours								
	ART	101 (Recommended)				HIST	101*, 102*			
	ART	106				MUSC	101			.
	ASL	101, 102*				PHIL	101*, 121, 201*, 202*			
	ENGL	109*, 222*, 225*				SPAN	101, 102*			
	ENGL	230*, 235*, 240*, 245*				TA	205			
	FREN	101								
Mathema	tics	3 hours						Т		T
	MATH	125* (Recommended)				MATH	130*, 135*			
Science		7 hours								
Science	Lab	7 Hours				Non-La	h h			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*				11110	100			
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								
Social an	d Rohavio	ral Science 9 hours				Ī				T
Ooolal all	Civics (3									
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				PSYC	101, 211*			
						SOC	101			
GE Core	Electives	5 hours						T		Г
		hours from courses listed								
		ot be used as Core electives if								
counted un	der another	section of this Program of								
Study.										
Major Co	urses	18 hours						T	П	Т
, 5 00.		d Courses (9 hours)				Approv	ved Electives (9 hours)			
	ART	191 Graphic Design II (3)				ART	103 Intro to 2-D Design (3)			
	COMM	220 Photocommunication I (3)				BSAD	150 Intro to Business (3)			
	COMM	231 Photocommunication II* (3)				BMGT	200 Marketing (3)			
						COMM	111 Magazine Prod I* (3)			
						COMM	150 Intro to Journalism* (3)			
							171-173 Topics in Communication (1-3)			
							225 Internship* (3)			1-

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Physical Education AA

Most successful Physical Education majors have a strong interest in general health, physical fitness, and sports. A desire to work with young people in their overall development is essential for success in this field. Students who transfer and complete a Bachelor of Science in Physical Education can find job opportunities in teaching, coaching, recreation, athletic training, and health promotion and wellness. Students seeking teaching/coaching careers in public schools must meet state certification requirements. The following program is suggested for students who intend to transfer following graduation. For best transfer, students should contact the four-year institution to which they plan to transfer as early in the program as possible.

Program of Study

Orientation	on.		1 hour
COLL	101		i iloui
Commun	ications		9 hours
Written	Communications (6 hour	s)	
ENGL	101*		
ENGL	102*		
Oral Co	ommunications (3 hours)		
COMM	104*		
Humaniti	es		9 hours
Student (prefixe	ts should select classes from s)	n two diffe	erent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathema	tics		3 hours
MATH	125*#, 130*, 135*		
Science			7 hours
Student	ts must meet the seven hou s from different disciplines (p ab		nent by selecting two
Student	s from different disciplines (p		nent by selecting two
Student	s from different disciplines (p ab <i>Lab</i>		nent by selecting two and at least one course
Student courses with a la	s from different disciplines (p ab <i>Lab</i>	orefixes) a	nent by selecting two and at least one course
Student courses with a la BIOL BIOL	s from different disciplines (pab Lab 101#, 110, 120	orefixes) a	nent by selecting two and at least one course
Student courses with a la BIOL BIOL CHEM	s from different disciplines (pab Lab 101#, 110, 120 152*, 252*	orefixes) a	nent by selecting two and at least one course
Student courses with a la BIOL BIOL CHEM	s from different disciplines (pab <i>Lab</i> 101#, 110, 120 152*, 252* 101, 104, 111*	orefixes) a	nent by selecting two and at least one course
Student courses with a la BIOL BIOL CHEM GEOL PHYS	s from different disciplines (pab Lab 101#, 110, 120 152*, 252* 101, 104, 111* 115, 210*	orefixes) a	nent by selecting two and at least one course
Student courses with a la BIOL BIOL CHEM GEOL PHYS Social and Student (prefixe	E from different disciplines (pab Lab 101#, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101#, 190* Id Behavioral Science ts should select classes from (s)	prefixes) a	nent by selecting two and at least one course Non-Lab 105 9 hours
Student courses with a late wi	Lab 101#, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101#, 190* 10 Behavioral Science ts should select classes fror s) (6 hours)	PHYS	nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines
Student courses with a later wi	s from different disciplines (pab) Lab 101#, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101#, 190* d Behavioral Science ts should select classes from (s) (6 hours) 106*#, 107*	PHYS n two diffe	nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines 201*, 202*
Student courses with a last substitution of the student (prefixer civics).	s from different disciplines (pab) Lab 101#, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101#, 190* d Behavioral Science ts should select classes from (s) (6 hours) 106*#, 107*	PHYS n two differences ECON GEOG	nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines 201*, 202* 111
Student courses with a later wi	s from different disciplines (pab) Lab 101#, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101#, 190* d Behavioral Science ts should select classes from (s) (6 hours) 106*#, 107*	PHYS n two differences ECON GEOG PSYC	nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines 201*, 202* 111 101#, 211*
Student courses with a last with a last last last last last last last la	s from different disciplines (pab) Lab 101#, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101#, 190* d Behavioral Science ts should select classes from (s) (6 hours) 106*#, 107*	PHYS n two differences ECON GEOG	nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines 201*, 202* 111 101#, 211*

GE CORE Electives 5 nours

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major C	Courses			13 hours
PE	113		PE	142
PE	115		PE	150
PE	120		PE	160, 260
PE	125			
PE A	ctivities Clas	ses (2 one hou	r classes	s maximum)
Appro	oved Elective	es (6-8 hours)		
BIOL	152*#		PSYC	211*
EDUC	231*#			

^{# -} Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation ENGL 101 English Composition MATH 125 Quantitative Reasoning PE 115 First Aid (Fall Only) PSYC 101 General Psychology	Hours 1 3 2 3
Approved Humanities Course TOTAL	3 15
Spring Semester BIOL 101 General Biology ENGL 102 Advanced English Comp HIST 106 U.S. History I PE 125 Athletic Training (Spring Only) PE 142 Personal & Community Health TOTAL	Hours 5 3 2 3 16
SECOND YEAR	
Fall Semester EDUC 231 Educational Psychology	Hours 3

Fall Seme	ster	•	Hours
EDUC :	231	Educational Psychology	3
ENGL	109	Intro to Literature	3
PE	120	Intro to PE (Fall Only)	2
PHYS	101	Survey of Phys. Science	5
Approve	ed G	E Core Elective	2-3
		E Elective	3
• •		TOTAL	18-19

Spring Semester	Hours
COMM 104 Fundamentals of Speech	3
PE 113 Lifetime Fitness & Wellness	2
PE 260 Coaching Methods II (Spring Only)	2
PLSC 103 Nat, State, Local Gov't	3
Approved GE Core Elective	2-3
Approved Humanities Course	3
TOTAL	15-16

TOTAL HOURS REQUIRED

64-66

*Prerequisite required

CROWDER COLLEGE ASSOCIATE OF ARTS DEGREE										
COLL	EGE	Phy	sic	al E	duc	atio	1			
eneral Edu	cation Co				To do			Done	Curr	To do
Orientatio	n	1 hour								
	COLL	101								
Communi	cations	9 hours								
Commun		Communications (6 hours)				Oral Co	ommunications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*				COIVIIVI	104			
	LITOL									
Humanitie	es	9 hours								
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathama	4100	2 haves	1		T	1				
Mathema	MATH	3 hours				NAA TU	120* 125*			
	IVIATO	125* (Recommended)				IVAIT	130*, 135*			
Science		7 hours								
	Lab					Non-La	ıb			
	BIOL	101 (Recommended)				PHYS	105			
	BIOL	110, 120, 152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101 (Recommended), 190*								
	<u> </u>					1				
Social and		oral Science 9 hours								
	Civics (
	HIST	106* (Recommended), 107*				ECON	201*, 202*			
	PLSC	103* (Recommended), 104*#				GEOG	111			
						PSYC	101 (Recommended), 211*			
						SOC	101			
GE Core E	Electives	5 hours								
,		hours from courses listed above.								
		ed as Core electives if counted								
under anotr	ier section	of this Program of Study.								
14-1-0		101			l l					
Major Co		12 hours					ved Electives 8 hours			
	PE	113 Lifetime Wellness (2)				BIOL	152 Anat & Phys I (5)(recommended			
	PE	115 First Aid (2)		ļ		EDUC	231 Educ Psych* (3) (recommended)			
	PE	120 Intro to Phys Educ (2)				PSYC	211 Lifespan Development* (3)			
	PE PE	125 Athletic Training (2) 142 Personal & Comm Health (3)								
	PE	150 Sport Psych (2)								
	PE	160 or 260 Coaching Methods (2)								
	PE	Activities classes (2 one-hour classes)	I	maxir	num)					
	· -	List below:]					
		1								

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Physics AA

Instruction in the Physical Sciences is offered in the areas of chemistry, physics, geology, and astronomy as the foundation for baccalaureate and graduate studies in these and related sciences at a university or four-year college. Physical Science students find employment in industrial research and development, government regulatory agencies, or secondary and post-secondary education. Each suggested curriculum that follows assumes a mathematics background that will permit an enrollment in the calculus series as a freshman. If pre-calculus classes are needed, more than four semesters may be necessary to complete this program.

Program of Study

Orientatio	on	1 hour				
COLL	101					
Commun	ications		9 hours			
Written	Communications (6 hour	rs)				
ENGL	101*					
ENGL	102*					
	ommunications (3 hours)					
COMM	104*					
Humaniti			9 hours			
Student (prefixe	s should select classes from s)	m two diffe	erent disciplines			
ART	101, 106	HIST	101*, 102*			
ASL	101, 102*	MUSC	101			
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*			
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*			
FREN	101	TA	205			
Mathema			5 hours			
MATH	150*#, 160*#					
Science			10 hours			
	s must meet the seven hou from different disciplines () ab					
	Lab		Non-Lab			
BIOL	101, 110, 120	PHYS	105			
BIOL	152*, 252*					
CHEM	101, 104, 111*					
GEOL	115, 210*					
PHYS	101, 190*# (Required)					
Social an	d Behavioral Science		9 hours			
Student (prefixe	s should select classes from s)	m two diffe	erent disciplines			
Civics ((3 hours)					
_	106*, 107*		201*, 202*			
PLSC	103*	GEOG	111			
		PSYC	101, 211*			
		SOC	101			
GE CORE	Electives		5 hours			

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Courses			22 hours				
COMP 111*	MATH	210*					
MATH 201*	PHYS	210*					
MATH 202*							
Other Recommended Courses							
CHEM 111* Any classes in Alternative Energy	CHEM	112*					

^{# -} Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

TINOTILAN	
Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Speech COMP 111 Intro to Programming ENGL 101 English Composition I MATH 150 Calculus I, Part 1 Approved Civics Course	Hours 1 3 4 3 2 3 16
Spring Semester ENGL 102 English Composition II MATH 160 Calculus I, Part 2 PHYS 190 General Physics I Approved GE Core Elective Approved Humanities Course TOTAL	Hours 3 3 5 5 19
SECOND YEAR	
Fall Semester MATH 201 Calculus II PHYS 210 General Physics II Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 5 5 3 3
Spring Semester BIOL 101 General Biology MATH 202 Calculus III MATH 210 Differential Equations Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	3-4 5 3 3 3 17-18
TOTAL HOURS REQUIRED	68-69

^{*}Prerequisite required

CROW	VDER	ASSOC	ATE	OF	AR	TS D	EGREE			
COLI	LEGE		F	hys	sics					
eneral Edu	cation Co	pre		Curr				Done	Curr	То
Orientatio	on	1 hour								
	COLL	101		<u> </u>	<u> </u>					
Commun	ications	9 hours		Т						
	Written	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								
Humaniti	08	9 hours			Ī					
Tramama	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			_
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
14 - 46	4:	E la suma								
Mathema		5 hours				NAA TU	125* 120* 125*			
	MATH	150* & 160* (Required)		<u> </u>		IWATH	125*, 130*, 135*			_
Science		10 hours								
	Lab					Non-La	ab			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101								
	PHYS	190* (Required)								
Social an	d Behavid	oral Science 9 hours		Ī					1	Т
		3 hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			1
	PLSC	103*, 104*				PSYC	101, 211*			
						SOC	101			
GE Core	Flectives	5 hours								
		-								
,		t hours from courses listed above.								
		sed as Core electives if counted								
under anot	ner section	of this Program of Study.								
Major Co	urses	22 hours								
	COMP	111 Intro to Computer Sci* (4)				Additio	onal Recommended Classes			
	MATH	201 Calculus II* (5)				CHEM	111 Gen Chemistry I* (5)			
	MATH	202 Calculus III* (5)		1		CHEM	112 Gen Chemistry II* (5)			-
	MATH	210 Diff Equations* (3)					sses in Alternative Energy			-
	PHYS	210 Gen Physics II* (5)				Ally Cla	In Alternative Diergy			-
	11113	Z TO OCH I Hysics II (3)		1	1					

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ASSOCIATE OF SCIENCE DEGREE

Pre-Engineering AS

The Associate in Science (A.S.) Pre-Engineering degree is a cooperative program between Crowder College and the School of Engineering at the Missouri University of Science & Technology. In addition, similar cooperative programs have been developed with the University of Missouri - Columbia and the University of Arkansas. Although not specifically designed for transfer to other engineering schools, the A.S. program does incorporate the essential course work for the first two years of study in any engineering field at other universities. Some of the course requirements vary with the engineering departments cooperating in this program. Those requirements are marked with a (†). In such cases, students will need to consult with the adviser as to the appropriate class for a particular engineering major.

Crowder College and the School of Engineering at Missouri University of Science & Technology have instituted an advisement and counseling program for pre-engineering majors. Students enrolling at Crowder can be simultaneously enrolled at Missouri S&T's Transfer Assistance Program. This allows for a smoother transition between the two institutions. Students are also allowed to participate in special pre-registration programs on the Missouri S&T campus.

Crowder College offers two degree programs in pre-engineering. The A.S. Pre-Engineering degree is designed for those students who plan to enter into traditional engineering fields such as Mechanical, Electrical, Civil, etc. Grades below a "C" are not allowed.

Program of Study

1 Togram of Study								
Orientatio	on		1 hour					
COLL	101							
Communi	ications †	6 hours						
ENGL	101*							
ENGL	102*							
COMM	104*							
Humanitie	es †		3 hours					
ART	101, 106	HIST	101*, 102*					
ASL	101, 102*	MUSC	101					
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*					
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*					
FREN	101	TA	205					
Mathemat	tics		18 hours					
MATH	150*	MATH	202*					
MATH	160*	MATH	210*					
MATH	201*							
Science			18 hours					
PHYS	190*	PHYS	250*					
PHYS	210*	CHEM	111*					
Social and	d Behavioral Science †		9 hours					
Civics (3 hours)	Additional 3 hours						
HIST	106*, 107*	ECON	201*, 202*					
PLSC	103	GEOG	111					
Econon	nics (3 hours)	PSYS	101, 211*					
ECON	201*, 202*	SOC	101					
Computer	r Science		4 hours					
COMP	111							
Technical	l Electives		5 hours					
CHEM	112*	DRFT	115					
CHEM	201*	DRFT	217					
DRFT	101							

^{# -} Preferred class for this degree option

Suggested Plan of Study

Suggested Plan of Study	
FIRST YEAR	
Fall Semester CHEM 111 General Chemistry I COLL 101 College Orientation COMP 111 Introduction to Programming ENGL 101 English Composition I MATH 150 Calculus I, Part 1 TOTAL	5 1 4 3 2 15
Spring Semester ECON 201 – OR – ECON 202 MATH 160 Calculus I, Part 2 PHYS 190 General Physics I Approved Communications Course Approved Humanities Course TOTAL	Hours 3 3 5 3 7 17
SECOND YEAR Fall Semester MATH 201 Calculus II PHYS 210 General Physics II Approved Civics Course Approved Soc & Behavioral Science Course TOTAL	Hours 5 5 3 3
Spring Semester MATH 202 Calculus III MATH 210 Differential Equations PHYS 250 Statics Approved Technical Electives TOTAL	Hours 5 3 3 5
TOTAL	
TOTAL HOURS REQUIRED	64

CROWDER ASSOCIATE OF SCIENCE DEGREE										
COL	LEGE	F	re-E	Ingi	inee	ring				
Done Curr To do								Done	Curr	To do
Orientatio	on	1 hour								
	COLL	101								
Commun	ications	6 hours	$\overline{}$							
Johnman	ENGL	101* (3)								
	ENGL	102*, 104* (3)								
	COMM	104* (3)								
Humaniti	05	3 hours	$\overline{}$					_		
пишаши	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*	1			MUSC	101 , 102			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathema	tics	18 hours								
Wallellia	MATH	150 Calculus I Part I* (2)				MATH	202 Calculus III* (5)			
	MATH	160 Calculus I Part II* (3)				MATH	210 Differential Equations* (3)			
	MATH	201 Calculus II* (5)					210 Billorential Equations (e)			
Science		18 hours		1				1		
Science	PHYS	190 General Physics I* (5)				PHYS	250 Statics* (3)			
	PHYS	210 General Physics II* (5)				CHEM	111 General Chemistry I* (5)			
Social & Behavioral Science 9 hours										
							1/01			
	Civics (3	· · · · · · · · · · · · · · · · · · ·					onal (3 hours)			
	HIST	106*				ECON	201*, 202*			
	HIST HIST	106* 107*				ECON GEOG	201*, 202* 111			
	HIST HIST PLSC	106* 107* 103*, 104*				ECON GEOG PSYC	201*, 202* 111 101, 211			
	HIST HIST PLSC Economic	106* 107* 103*, 104* cs (3 hours)				ECON GEOG	201*, 202* 111			
	HIST HIST PLSC Economic ECON	106* 107* 103*, 104* cs (3 hours) 201*, 202*				ECON GEOG PSYC	201*, 202* 111 101, 211			
Compute	HIST PLSC Economic ECON r Science	106* 107* 103*, 104* cs (3 hours) 201*, 202* 4 hours				ECON GEOG PSYC	201*, 202* 111 101, 211			
Compute	HIST HIST PLSC Economic ECON	106* 107* 103*, 104* cs (3 hours) 201*, 202*				ECON GEOG PSYC	201*, 202* 111 101, 211			
	HIST PLSC Economic ECON r Science	106* 107* 103*, 104* 25 (3 hours) 201*, 202* 4 hours 111 Intro to Computer Sci* (4)				ECON GEOG PSYC	201*, 202* 111 101, 211			
	HIST PLSC ECONOMIC ECON **Science** COMP	106* 107* 103*, 104* 25 (3 hours) 201*, 202* 4 hours 111 Intro to Computer Sci* (4)				ECON GEOG PSYC	201*, 202* 111 101, 211			
	HIST PLSC Economic ECON r Science COMP	106* 107* 103*, 104* 25 (3 hours) 201*, 202* 4 hours 111 Intro to Computer Sci* (4) 5 hours				ECON GEOG PSYC SOC	201*, 202* 111 101, 211 101			
	HIST PLSC Economic ECON r Science COMP I Electives CHEM	106* 107* 103*, 104* 25 (3 hours) 201*, 202* 4 hours 111 Intro to Computer Sci* (4) 5 hours 112 General Chemistry II* (5)				ECON GEOG PSYC SOC	201*, 202* 111 101, 211 101 101 101 Engineering Draw (3)	35)		
Technica	HIST PLSC ECONOMIC ECON **Science** COMP **I Electives** CHEM CHEM	106* 107* 103*, 104* 25 (3 hours) 201*, 202* 4 hours 111 Intro to Computer Sci* (4) 5 hours 112 General Chemistry II* (5) 201 Quant Analysis* (5)				ECON GEOG PSYC SOC DRFT DRFT	201*, 202* 111 101, 211 101 101 Engineering Draw (3) 115 Basic CAD (3)			
Technica	HIST PLSC ECONOMIC ECON **Science** COMP **I Electives** CHEM CHEM	106* 107* 103*, 104* 25 (3 hours) 201*, 202* 4 hours 111 Intro to Computer Sci* (4) 5 hours 112 General Chemistry II* (5)				ECON GEOG PSYC SOC DRFT DRFT	201*, 202* 111 101, 211 101 101 Engineering Draw (3) 115 Basic CAD (3)	5)		

Pre-Medicine AA

This program provides introductory courses for students interested in application to a college of medicine. Students should consult their advisors, as well as the institution to which they intend to transfer to finish their prerequisites, to insure that their course selections are appropriate. Prerequisite requirements for the college of medicine of interest should also be considered.

Program of Study

Orientation			1 hour
COLL	101		
Communica	tions		9 hours
Written Co	ommunications (6 hours)		
ENGL	101*		
ENGL	102*		
	munications (3 hours)		
COMM Humanities	104*		9 hours
пинаниез			9 Hours
Students s	hould select classes from t	wo differe	ent disciplines (prefixes)
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathematics	-		5 hours
MATH	150*, 160*		
Science			7 hours
	s must meet the seven hou from different disciplines (p b		
	Lab		Non-Lab
BIOL	101, 110#, 120	PHYS	105
BIOL	152*, 252*		
CHEM	101, 104, 111*#		
GEOL	115, 210*		
PHYS	101		
Social and E	Behavioral Science		9 hours
Students s	hould select classes from t	wo differe	ent disciplines (prefixes)
Civics (3 h	•		
HIST	106*, 107*		201*, 202*
PLSC	103*	GEOG	
		PSYC SOC	101, 211* 101
GE CORE E	lectives		5 hours
	al 5 credit hours from cours Core electives if counted un ly		
Major Cours	ses		20 hours

BIOL

CHEM 221*

PHYS 210*

220*

- Preferred class for this degree option

Required Courses (10 hours)

Approved Electives (10 hours)

190*

112*

201*

PHYS

CHEM

CHEM

Suggested Plan of Study

FIRST YEAR

Fall Semester BIOL 101 Biology CHEM 111 General Chemistry I COLL 101 College Orientation ENGL 101 English Composition I MATH 150 Calculus 1, Part I TOTAL	5 5 1 3 2 16
Spring Semester CHEM 112 General Chemistry II MATH 160 Calculus 1, Part II Approved Civics Course Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 5 3 3 3 17
SECOND YEAR	
Fall Semester BIOL 110 – OR – Approved elective BIOL 220 General Microbiology ENGL 102 English Composition II Approved Humanities Course TOTAL	5 5 3 3 16
Spring Semester COMM 104 Fundamentals of Speech PHYS 190 General Physics I Approved GE Core Elective Approved Humanities Course Approved Soc & Behavioral Science Course TOTAL	Hours 3 5 2 3 3 16
TOTAL HOURS REQUIRED	65

^{*}Prerequisite required

9 hours 101 9 hours 101* 102*, 104* 9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours	Done			Communications (3 hours)	Done	Curr	To
1 hour 101 9 hours Communications (6 hours) 101* 102*, 104* 9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours	Done	Curr T	Oral C COMM HIST MUSC PHIL SPAN TA	104* 101*, 102* 101 101*, 121, 201*, 202* 101, 102*	Done	Curr	To (
9 hours n Communications (6 hours) 101* 102*, 104* 9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required)			HIST MUSC PHIL SPAN TA	104* 101*, 102* 101 101*, 121, 201*, 202* 101, 102*			
9 hours n Communications (6 hours) 101* 102*, 104* 9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required)			HIST MUSC PHIL SPAN TA	104* 101*, 102* 101 101*, 121, 201*, 202* 101, 102*			
n Communications (6 hours) 101* 102*, 104* 9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours			HIST MUSC PHIL SPAN TA	104* 101*, 102* 101 101*, 121, 201*, 202* 101, 102*			
101* 102*, 104* 9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours			HIST MUSC PHIL SPAN TA	104* 101*, 102* 101 101*, 121, 201*, 202* 101, 102*			
9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours			HIST MUSC PHIL SPAN TA	101*, 102* 101 101*, 121, 201*, 202* 101, 102*			
9 hours 101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours			MUSC PHIL SPAN TA	101 101*, 121, 201*, 202* 101, 102*			
101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required)			MUSC PHIL SPAN TA	101 101*, 121, 201*, 202* 101, 102*			
101, 106 101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required)			MUSC PHIL SPAN TA	101 101*, 121, 201*, 202* 101, 102*			
101, 102* 109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours			MUSC PHIL SPAN TA	101 101*, 121, 201*, 202* 101, 102*			
109*, 222*, 225* 230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required)			PHIL SPAN TA	101*, 121, 201*, 202* 101, 102*			
230*, 235*, 240*, 245* 101 5 hours 150* & 160* (Required) 7 hours			SPAN TA	101, 102*			
101 5 hours 150* & 160* (Required) 7 hours			TA				
5 hours 150* & 160* (Required) 7 hours				205			
150* & 160* (Required) 7 hours			Non I				
7 hours			Non I				
			Non I				
			Non				
1				ab			
101, 120			PHYS	105			
110 (Recommended)				100			-
152*, 252*							
101, 104							
111* (Recommended)							
115, 210*							
101							
101							
oral Science 9 hours							
(3 hours)							
106*			ECON	201*, 202*			
107*			GEOG				
103*, 104*			PSYC	101, 211*			
			SOC	101			_
5 hours							П
it hours from courses listed							
not be used as Core electives if							
er section of this Program of							
20 hours			Appro	oved Electives (10 hours)			
-			CHEM				
-			CHEM				
red Courses (10 hours) 220 Gen Microbiology* (5)			CHEM	221 Organic & Biochemistry* (5)			
red Courses (10 hours)							
r	20 hours 20 courses (10 hours) 220 Gen Microbiology* (5)	red Courses (10 hours) 20 hours 220 Gen Microbiology* (5)	red Courses (10 hours) 20 hours 220 Gen Microbiology* (5)	20 hours	red Courses (10 hours) 20 General Physics I* (5) 20 Hours CHEM 201 Quant Analysis* (5) CHEM 221 Organic & Biochemistry* (5)	20 hours	red Courses (10 hours) 220 Gen Microbiology* (5) 190 General Physics I* (5) CHEM 221 Organic & Biochemistry* (5) CHEM 221 Organic & Biochemistry* (5)

Preschool Teacher/Paraprofessional AA

The Preschool Teacher/Paraprofessional Program is designed for individuals who need an associate degree in early childhood. Graduates are prepared to continue as an early childhood teacher at Head Start, as a paraprofessional in a P-12 setting, an Autism assistant, or in a private institution. If the student prefers to pursue a BA, the student will have completed the general education requirements and the 18 hours in the major include courses that are transferable to several four-year institutions in our area. Students must register with FCSR and have a clearance letter before completing any observation in schools.

Program of Study

Orientatio	n		1 hour
COLL	101		
Communi	cations		9 hours
Written	Communications (6 hours	s)	
ENGL	101*		
ENGL	102*		
Oral Co	mmunications (3 hours)		
COMM	104*		
Humanitie	es		9 hours
Students (prefixes	s should select classes from s)	two differ	rent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathemat	tics		3 hours
MATH	125* #, 130*, 135*		
	, ,		
Science	,,		7 hours
Students	s must meet the seven hour from different disciplines (p		ent by selecting two
Students	s must meet the seven hour from different disciplines (p		ent by selecting two
Students	s must meet the seven hour from different disciplines (p b		ent by selecting two ad at least one course
Students courses with a la	s must meet the seven hour from different disciplines (p b <i>Lab</i>	refixes) ar	ent by selecting two ad at least one course
Students courses with a la	s must meet the seven hour from different disciplines (p b <i>Lab</i> 101, 110, 120	refixes) ar	ent by selecting two ad at least one course
Students courses with a la BIOL BIOL	s must meet the seven hour from different disciplines (p b <i>Lab</i> 101, 110, 120 152*, 252*	refixes) ar	ent by selecting two ad at least one course
Students courses with a la BIOL BIOL CHEM	s must meet the seven hour from different disciplines (p b <i>Lab</i> 101, 110, 120 152*, 252* 101, 104, 111*	refixes) ar	ent by selecting two ad at least one course
Students courses with a la BIOL BIOL CHEM GEOL PHYS	s must meet the seven hour from different disciplines (p b <i>Lab</i> 101, 110, 120 152*, 252* 101, 104, 111* 115, 210*	refixes) ar	ent by selecting two ad at least one course
Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students (prefixes	s must meet the seven hour from different disciplines (pb) Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science s should select classes from (s)	refixes) ar	ent by selecting two and at least one course Non-Lab 105 9 hours
Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students (prefixes	s must meet the seven hour from different disciplines (pb Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science s should select classes from	refixes) ar	ent by selecting two and at least one course Non-Lab 105 9 hours
Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students (prefixes	s must meet the seven hour from different disciplines (p b) Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science is should select classes from (s) 3 hours)	refixes) ar PHYS	ent by selecting two and at least one course Non-Lab 105 9 hours
Students courses with a later than the students of the student	s must meet the seven hour from different disciplines (p b Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science s should select classes from (s) 3 hours)	refixes) ar PHYS	ent by selecting two and at least one course Non-Lab 105 9 hours ent disciplines 201*, 202*
Students courses with a late some some some some some some some som	s must meet the seven hour from different disciplines (p b) Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science (s) should select classes from (s)	refixes) ar PHYS two differ ECON	ent by selecting two and at least one course Non-Lab 105 9 hours ent disciplines 201*, 202*
Students courses with a late some some some some some some some som	s must meet the seven hour from different disciplines (p b) Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science (s) should select classes from (s)	PHYS two differ ECON GEOG	Pent by selecting two and at least one course Non-Lab 105 9 hours Pent disciplines 201*, 202* 111 101#, 211*

GE CORE Electives 5 hours

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Cou	18 hours					
ECD	101 OR EDUC 125	PSYC	203			
ECD	103	PSYC	204			
ECD	201*	PSYC	211*			
ECD	203* OR EDUC 251	PSYC	290			
EDUC	206*					
Students with the Child Development Associate (CDA) national credential will be credited with completed ECD 101 and ECD 103.						

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation ENGL 101 English Composition I PSYC 101 General Psychology Approved Science Course Major Course TOTA	Hours 1 3 3 3 5 5 3 AL 13-15
Spring Semester ENGL 102 English Composition II MATH 125 Quantitative Reasoning SOC 101 General Sociology Approved Civics Course Major Course TOTA	Hours 3 3 3 3 3 3 1 15
SECOND YEAR	
Fall Semester COMM 104 Fundamentals of Speech PHYS 101 Survey of Physical Science Approved GE Core Elective Approved Humanities Course Major Course TOTA	Hours 3 3-5 3 3 3 4 15-17
Spring Semester Approved GE Core Elective Approved Humanities Course Approved Humanities Course Major Course Major Course Major Course Major Course	
TOTAL HOURS REQUIR	ED 60-64

^{*}Prerequisite required

^{# -} Preferred class for this degree option

CROW	VDER	ASSOC	IAT	ΕO	FA	RTS	DEGREE			
COLL	EGE	Preschool	Te	ach	er/F	arap	orofessional			
eneral Educ	cation Co	_	Done	Curr	To do			Done	Curr	To
Orientatio	on	1 hour								
	COLL	101								
Communi	ications	9 hours						T		
	Written	Communications (6 hours)				Oral Co	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*	<u> </u>							
Humanitie	es	9 hours						T		
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathemat	tion	3 hours						Т.		П
Maurema	MATH	125* (Recommended)				MATH	130*, 135*			
	100 (1111	· ·				100 (1111	100 , 100			
Science		7 hours								
	Lab					Non-La				
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								
Social and	d Behavi	oral Science 9 hours						Т		
		(3 hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				PSYC	101, 211*			_
	1.20					SOC	101 (Recommended)			
							,			
GE Core E										
Any addition	nal 5 cred	it hours from courses listed								
-										
above. Cou		not be used as Core electives if								
above. Cou		not be used as Core electives if er section of this Program of								
above. Cou counted und										
above. Cou counted und Study.	der anothe	er section of this Program of	(CDA) natio	onal cr	o do ntia	I will be credited with completing			
above. Cou counted und Study.	der anothe	er section of this Program of Child Development Associate					Il will be credited with completing			
above. Cou counted und Study. Students v	with the o	Child Development Associate 3. Students will take the Pre	-Profe	ession	nal Ass		Il will be credited with completing	ood Ed 1	throug	gh t
above. Cou counted und Study. Students v	with the o	er section of this Program of Child Development Associate	-Profe	ession	nal Ass			ood Ed t	throug	gh t
above. Cou counted und Study. Students v	with the one ECD 10	Child Development Associate 3. Students will take the Pre	-Profe	ession	nal Ass			ood Ed 1	throug	gh t
above. Cou counted und Study. Students v ECD 101 an American	with the one ECD 10	Child Development Associate 3. Students will take the Pre	-Profe	ession	nal Ass				throug	gh t
above. Cou counted und Study. Students v ECD 101 an American	with the ond ECD 10 Associat	Child Development Associate 3. Students will take the Precion of Family and Consumer 18 hours	-Profe	ession	nal Ass	sessme	ent and Certification in Early Childho		through	gh ti
above. Cou counted und Study. Students v ECD 101 an American	with the ond ECD 10 Associate	Child Development Associate 3. Students will take the Pre tion of Family and Consumer 18 hours 101 Foundations (3)	-Profe	ession	nal Ass	sessme	ent and Certification in Early Childho		through	gh t
above. Cou counted und Study. Students v ECD 101 an American	with the condense of the conde	Child Development Associate 3. Students will take the Presion of Family and Consumer 18 hours 101 Foundations (3) 103 Health and Safety (3) 201 Curriculum* (3)	-Profe	ession	nal Ass	sessme	ent and Certification in Early Childho		throug	gh t
above. Cou counted und Study. Students v ECD 101 an American	with the ond ECD 10 Associate ECD ECD ECD	Child Development Associated as Students will take the Presion of Family and Consumer 18 hours 101 Foundations (3) 103 Health and Safety (3) 201 Curriculum* (3) 203 Practicum* (2)	-Profe	ession	nal Ass	oessme OR	ent and Certification in Early Childho		throug	gh t
above. Cou counted und Study. Students v ECD 101 an American	with the condector another with the condector another condector and another condector and another condector another cond	Child Development Associated 3. Students will take the Presion of Family and Consumer 18 hours 101 Foundations (3) 103 Health and Safety (3) 201 Curriculum* (3) 203 Practicum* (2) 206 Literature for Children* (3)	-Profe	ession	nal Ass	oessme OR	ent and Certification in Early Childho		throug	gh t
above. Cou counted und Study. Students v ECD 101 an American	with the Cond ECD 10 Associate urses ECD ECD ECD ECD ECD EDUC PSYC	Child Development Associated 3. Students will take the Presion of Family and Consumer 18 hours 101 Foundations (3) 103 Health and Safety (3) 201 Curriculum* (3) 203 Practicum* (2) 206 Literature for Children* (3) 203 Autism Disorders (3)	-Profe	ession	nal Ass	oessme OR	ent and Certification in Early Childho		throug	gh t
above. Cou counted und Study. Students v ECD 101 an American	with the condector another with the condector another condector and another condector and another condector another cond	Child Development Associated 3. Students will take the Presion of Family and Consumer 18 hours 101 Foundations (3) 103 Health and Safety (3) 201 Curriculum* (3) 203 Practicum* (2) 206 Literature for Children* (3)	-Profe	ession	nal Ass	oessme OR	ent and Certification in Early Childho		through	gh t

Pre-Veterinary Medicine AA

This program provides introductory courses for students interested in application to a college of veterinary medicine. Students should consult their advisors, as well as the institution to which they intend to transfer to finish their prerequisites, to insure that their course selections are appropriate. Prerequisite requirements for the college of veterinary medicine of interest should also be considered.

Program of Study

Orientation	7		1 hour
COLL	101 OR AGRI 111		
Communic	ations		9 hours
Written (Communications (6 hours)	
ENGL	101*		
ENGL	102*		
Oral Con	nmunications (3 hours)		
COMM	104*		
Humanities	s		9 hours
Students (prefixes)	should select classes from)	two differ	rent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathemati	cs		3 hours
MATH	125*, 130*, 135*#		
	, ,		
Science	,,		7 hours
Studer	nts must meet the seven hose from different disciplines with a lab		ement by selecting two
Studer	nts must meet the seven ho		ement by selecting two
Studer	nts must meet the seven ho es from different disciplines with a lab		ement by selecting two and at least one
Studer course course	nts must meet the seven ho es from different disciplines with a lab Lab	(prefixes)	ement by selecting two and at least one
Studer course course BIOL	nts must meet the seven ho es from different disciplines with a lab <i>Lab</i> 101, 110#, 120	(prefixes)	ement by selecting two and at least one
Studer course course BIOL BIOL	nts must meet the seven hose from different disciplines with a lab Lab 101, 110#, 120 152*, 252*	(prefixes)	ement by selecting two and at least one
Studer course course BIOL BIOL CHEM	nts must meet the seven hose from different disciplines with a lab Lab 101, 110#, 120 152*, 252* 101, 104, 111*	(prefixes)	ement by selecting two and at least one
Studer course course BIOL BIOL CHEM GEOL PHYS	nts must meet the seven hose from different disciplines with a lab Lab 101, 110#, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Behavioral Science	(prefixes)	ement by selecting two and at least one Non-Lab 105 9 hours
Studer course course BIOL BIOL CHEM GEOL PHYS	nts must meet the seven hose from different disciplines with a lab Lab 101, 110#, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Behavioral Science should select classes from	(prefixes)	ement by selecting two and at least one Non-Lab 105 9 hours
Studer course course BIOL BIOL CHEM GEOL PHYS Social and Students (prefixes)	nts must meet the seven hose from different disciplines with a lab Lab 101, 110#, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Behavioral Science should select classes from	(prefixes)	ement by selecting two and at least one Non-Lab 105 9 hours
Studer course course BIOL BIOL CHEM GEOL PHYS	nts must meet the seven hose from different disciplines with a lab Lab 101, 110#, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Behavioral Science should select classes from	(prefixes) PHYS	ement by selecting two and at least one Non-Lab 105 9 hours
Studer course course BIOL BIOL CHEM GEOL PHYS Social and Students (prefixes) Civics (3	nts must meet the seven hores from different disciplines with a lab Lab 101, 110#, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Behavioral Science should select classes from hours)	(prefixes) PHYS	ement by selecting two and at least one Non-Lab 105 9 hours rent disciplines 201*, 202*
Studer course course BIOL BIOL CHEM GEOL PHYS Social and Students (prefixes) Civics (3 HIST	nts must meet the seven hose from different disciplines with a lab Lab 101, 110#, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Behavioral Science should select classes from hours) 106*, 107*	(prefixes) PHYS two differences	when the property of and at least one Non-Lab 105 9 hours rent disciplines 201*, 202* 111

GE CORE Electives 5 hours

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Cou	rses			23 hours
Required	Courses (17 hours)			
ANSC	114	CHEM	112*	
BIOL	220*	MATH	112*	
Approve	d Electives (6 hours)			
ANSC	101*	BIOL	120*	
ANSC	180*	CHEM	221*	
ANSC	213	MATH	150*	
ANSC	223	MATH	160*	
ANSC	232*	PHYS	190*	
ANSC	233	PHYS	210*	

Suggested Plan of Study

FIRST YEAR

Fall Semester AGRI 111 – OR – COLL 101 ANSC 114 Animal Science (elect BIOL 110 General Zoology ENGL 101 English Composition I MATH 135 Algebra for Calculus Approved GE Core Elective	ive)	Hours 1 4 5 3 2 18
Spring Semester BIOL 220 General Microbiology COMM 104 Fundamentals of Spee ENGL 102 English Composition I MATH 112 Trigonometry Approved Elective(s)		Hours 5 3 3 3 7 5 17-19
SECOND YEA	AR	
Fall Semester Approved Elective(s) Approved GE Core Elective Approved Humanities Course Approved Science Course Approved Soc & Behavioral Science	ce Course TOTAL	Hours 3-5 3 3-5 3 15-19
Spring Semester		Hours
CHEM 112 General Chemistry II Approved Civics Course Approved Humanities Course Approved Humanities Course Approved Soc & Behavioral Science	ce Course TOTAL	5 3 3 3 3
CHEM 112 General Chemistry II Approved Civics Course Approved Humanities Course Approved Humanities Course	TOTAL	3 3 3 3

^{&#}x27;Prerequisite required

CROW	VDER	ASSOC	IAT	EC)F A	RTS	DEGREE			
COLI	LEGE	Pre-	-Vet	terii	nary	Med	dicine			
eneral Edu	cation Co	ore	Done	Curr	To do			Done	Curr	To do
Orientatio	on	1 hour				OR				
	COLL	101				AGRI	111 Ag Career Development			
Commun	ications	9 hours								
	Writter	Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*	l		.l					
Humanitie	es	9 hours						$\overline{}$		
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101			<u> </u>	TA	205			
Mathema	tics	3 hours						$\overline{}$		
matroma	MATH	135* (Recommended)				MATH	125*, 130*			
Caiamaa						l				
Science	Lab	7 hours				Non-La	h			
	BIOL	101, 120				PHYS	105			
	BIOL	110 (Recommended)				11113	103			
		152*, 252*								
	BIOL									
	CHEM	101,104, 111*			·					
	GEOL	115, 210*		ļ						
	PHYS	101, 190*	ļ							
Social an	d Behavi	oral Science 9 hours								
	Civics	(3 hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				PSYC	101, 211*			
					<u> </u>	SOC	101			
GE Core	Flectives	5 hours						$\overline{}$		
		it hours from courses listed								
-		not be used as Core electives if								
-		er section of this Program of								
Study.		-								
Major Co		22 hours	<u> </u>			4	and Florities (Chause)			Ī
Major Co		ed Courses (17 hours)				Approv ANSC	/ed Electives (6 hours) 101 Livestock Selection* (1)			
	ANSC	114 Animal Science (4)				ANSC	180 Intro to Vet Science* (2)			
	BIOL	220 Gen Microbiology* (5)				ANSC	213 Feeds & Nutrition (3)			
	CHEM	112 Gen Chemistry II* (5)		1		ANSC	223 Farm Animal Health (3)			
	MATH	112 Trigonometry* (3)				ANSC	232 Al/Animal Reproduct* (3)			
		J				ANSC	233 Horse Science (3)			
						BIOL	120 General Botany* (5)			
		1		1		CHEM	221 Organic & Biochemistry* (5)			
						MATH	150 Calculus I, Part 1* (2)			
						MATH	160 Calculus 1, Part II* (3)			
						PHYS	190 Physics I* (5)			
						PHYS	210 General Physics II* (5)			

Psychology: General AA

Career opportunities for psychology majors include social work, teaching and counseling. After completion of a baccalaureate degree, graduates often find work with government agencies. An Associate in Arts in Psychology requires completion of the general education core, nine hours in psychology, and Sociology 101.

Program of Study

Orientati			1 hour
COLL			
	nications	-1	9 hours
ENGL	Communications (6 hours	s)	
ENGL			
	ommunications (3 hours)		
COMM	,		
Humanit	ties		9 hours
Student (prefixe	ts should select classes from s)	n two differ	rent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathema			3 hours
MATH	135*	MATH	125*, 130*
Science			7 hours
	ts must meet the seven hour	requireme	ent by selecting two
with a la	s from different disciplines (p		
	s from different disciplines (p		
	s from different disciplines (p ab		nd at least one course
with a la	s from different disciplines (p ab <i>Lab</i>	refixes) ar	nd at least one course Non -Lab
with a la	s from different disciplines (p ab <i>Lab</i> 101, 110, 120 152*, 252*	refixes) ar	nd at least one course Non -Lab
BIOL BIOL CHEM GEOL	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210*	refixes) ar	nd at least one course Non -Lab
with a la	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190*	refixes) ar	nd at least one course Non -Lab 105
with a la	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science	refixes) ar	nd at least one course Non -Lab
with a land block	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Civics (3 hours)	refixes) ar	Non -Lab 105 9 hours
with a land block	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Civics (3 hours) 106*, 107*	PHYS	Non -Lab 105 9 hours 201*, 202*
with a land block	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Civics (3 hours)	refixes) ar	Non -Lab 105 9 hours
with a land block	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Civics (3 hours) 106*, 107*	PHYS	Non -Lab 105 9 hours 201*, 202*
with a land BIOL BIOL CHEM GEOL PHYS Social and HIST PLSC GE COR Any additional of the connect of the connec	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Civics (3 hours) 106*, 107* 103*	PHYS ECON GEOG	9 hours 201*, 202* 111 5 hours ed above. Courses
BIOL BIOL CHEM GEOL PHYS Social an HIST PLSC GE COR Any add cannot i this Pro	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Civics (3 hours) 106*, 107* 103* E Electives ditional 5 credit hours from color used as Core electives if	PHYS ECON GEOG	9 hours 201*, 202* 111 5 hours ed above. Courses
BIOL BIOL CHEM GEOL PHYS Social an HIST PLSC GE COR Any add cannot i this Pro	s from different disciplines (pab Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* Ind Behavioral Science Civics (3 hours) 106*, 107* 103* E Electives ditional 5 credit hours from cobe used as Core electives if gram of Study	ECON GEOG ourses liste	9 hours 201*, 202* 111 5 hours ed above. Courses nder another section of

Approved Electives (9 hours)

PSYC

PSYC

PSYC

PSYC

110*

203

204

290*

PSYC

HIST

PLSC

EDUC 231*

211

103*

106*, 107*

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition I MATH 135 Algebra for Calculus PSYC 101 General Psychology Approved Civics Course TOTAL	Hours 1 3 3 3 3 3 16
Spring Semester ENGL 102 English Composition II SOC 101 General Sociology Approved Humanities Course Approved Science Course Approved Social & Behavioral Science Course TOTAL	Hours 3 3 3 3 5 5 15-17
SECOND YEAR	
Fall Semester PSYC 211 Lifespan Development Approved GE Core Elective Approved Humanities Course Approved Science Course Approved Psychology Elective TOTAL	Hours 3 3 3 3 5 5 3 15-17
Spring Semester Approved GE Core Elective Approved Humanity Course Approved Psychology Elective Approved Psychology Elective Approved Social and Behavioral Course TOTAL	Hours 3 3 3 3 3 3 15
TOTAL HOURS REQUIRED	61-65

^{*}Prerequisite required

^{# -} Preferred class for this degree option

CROW COLI	/DER	ASSOCIA	TE	OF	AR'	TS D	EGREE			
COLI	EGE		Psy	cho	olo	av				
eneral Edu	cation Co	re		Curr				Done	Curr	То
Orientatio		1 hour	1							
	COLL	101								
Communi	cations	9 hours		1	1					
		Communications (6 hours)				Oral C	ommunications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*								
Humanitie	25	9 hours			П			Т		Г
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC	101			_
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathema	tion	3 hours			1	<u> </u>				
watnema	MATH	135* (Recommended)				MATH	125*, 130*			
	100-3111					JWATTI	120 , 100			
Science		7 hours								
	Lab					Non-La				
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								
Social and	d Behavid	oral Science 9 hours						Ī		Г
		3 hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				0_00				
GE Core L	-la a tiura a						T			
		t hours from courses listed above.								
		sed as Core electives if counted								_
	ner sectior	of this Program of Study.								
under anoth		,								
	ursas									
under anoth		18 hours								
	Require	18 hours ed Courses (9 hours)				SOC	101 General Sociology (3)			
		18 hours				SOC	101 General Sociology (3)			
	PSYC PSYC	18 hours ed Courses (9 hours) 101 General Psych (3) 211 Lifespan Development* (3)				SOC	101 General Sociology (3)			
	PSYC PSYC PSYC	18 hours ed Courses (9 hours) 101 General Psych (3) 211 Lifespan Development* (3) ed Electives (9 hours)								
	Require PSYC PSYC Approv EDUC	18 hours ed Courses (9 hours) 101 General Psych (3) 211 Lifespan Development* (3) ed Electives (9 hours) 231 Educational Psych* (3)				PSYC	110 Psych of Pers Adj* (3)			
	PSYC PSYC PSYC	18 hours ed Courses (9 hours) 101 General Psych (3) 211 Lifespan Development* (3) ed Electives (9 hours)								

Social Work AA

The Social Work program provides students with an introduction to and a foundation in the field of Social Work. An associate of arts in social work leads to a Bachelor's degree, which paves the way for a job in social work. The following program is suggested for graduation. It is recommended that students contact the transfer institution for its specific Bachelor's degree requirements.

Program of Study

Orientation	on		1 hour
COLL	101		
Commun	ications		9 hours
	Communications (6 hou	ırs)	
ENGL	101*		
ENGL	102*		
COMM	ommunications (3 hours))	
Humaniti			0 hours
		om turo diff	9 hours
(prefixe	ts should select classes fro s)	om two am	erent disciplines
ART	101, 106	HIST	101*, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathema			3 hours
MATH	125*#, 130*, 135*		
Science			7 hours
	ts must meet the seven ho s from different disciplines ab		
	Lab		Non-Lab
BIOL	101, 110, 120	PHYS	105
BIOL	152*, 252*		
CHEM	101, 104, 111*		
GEOL	115, 210*		
PHYS	101, 190*		
	d Behavioral Science		9 hours
Student (prefixe	ts should select classes fro s)	om two diff	erent disciplines
Civics ((3 hours)		
HIST	106*, 107*	ECON	201* (Required)
Plus 3	Hours	GEOG	111
PLSC	103*		
GE CORE	E Electives		5 hours
cannot be	ional 5 credit hours from co used as Core electives if am of Study		
Major Co	urses		18 hours
PSYC	101	SWK	200*
PSYC	211*	SWK	221
SOC	101	SWK	230

- Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition I MATH 125 Quantitative Reasoning SOC 101 General Sociology SWK 200 Intro to Social Work	Hours 1 3 3 3 3 16
Spring Semester ENGL 102 English Composition II HIST 106 US History I SWK 221 Basic Helping Skills Approved Science Course TOTAL	Hours 3 3 3 3 1 12-14
SECOND YEAR	
Fall Semester ECON 201 Principles of Economics I PSYC 101 General Psychology SWK 230 Substance Abuse Interventions Approved Humanities Course Approved Science Course TOTAL	Hours 3 3 3 3 3 1-5 15-17
Spring Semester PLSC 103 Nat'l, State, Local Gov't Approved GE Core Elective Approved Humanities Course Approved Humanities Course TOTAL	Hours 3 5 3 14
TOTAL HOURS REQUIRED	61

^{*}Prerequisite required

COLI	EGE		9^	cial	Wo	rl				
					_	ı N				
eneral Edu				Curr	To do			Done	Curr	То
Orientatio		1 hou	ır							
	COLL	101								<u> </u>
Communi	ications	9 hour	'e		П			Т		Т
Commun		Communications (6 hours)	-		1 1	Oral C	ommunications (3 hours)			
	ENGL	101*				COMM				
	ENGL	102*, 104*			`	JOIVIIVI	104			-
	LIVOL	102 , 104					l			
Humanitie	es	9 hour	'S							
	ART	101, 106			ŀ	HST	101*, 102*			
	ASL	101, 102*				MUSC				
	ENGL	109*, 222*, 225*				HIL	101*, 121, 201*, 202*			T
	ENGL	230*, 235*, 240*, 245*					101, 102*			
	FREN	101				ГА	205			Т
Mathema	tics	3 hour	s							
	MATH	125* (Recommended)				MTH	130*, 135		<u> </u>	<u>.l_</u>
Science		7 hour	·o							₹
Science	Lob	7 Hour	3		 	Von-La	- h			-
	Lab	404 440 400								-
	BIOL	101, 110, 120				PHYS	105			-
	BIOL	152*, 252*								-
	CHEM	101, 104, 111*								-
	GEOL	115, 210*								_
	PHYS	101, 190*			lL				<u> </u>	上
Social and	d Rohavi	oral Science 9 hour	e					$\overline{}$		₸
Jocial all		6 hours - one from each line								-
	HIST	106*, 107*	,			-CON	201* (Recommended)			-
	PLSC	103*, 104*				ECON				+-
	1 200	100 , 104				GEOG				+-
		ļ.		l	1	JLOO	ļ 1111			
GE Core I	Electives	5 hour	's							
AI -I'''	15 '	*								
,		it hours from courses listed above								
		sed as Core electives if counted								
under anotr	ier section	n of this Program of Study.								П
Major Co		18 hour	S							1
	PSYC	101 Gen Psyc (3)				SWK	200 Intro to Social Work* (3)			-
	PSYC	211 Lifespan Development (3)				SWK	221 Basic Helping Skills (3)			.
	SOC	101 Gen Sociology (3)				SWK	230 Substance Abuse Intvntns (3)		i	

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ASSOCIATE OF ARTS DEGREE

Spanish AA

Learning a second language encourages diversity, motivates or strengthens concern for world affairs, extends international business/marketing strategies, and enables global travel opportunities. Classes in Spanish may be used to fulfill Humanities requirements in other A.A programs and would be beneficial in almost any career field in the 21st century. A Spanish major may be used in teaching, government, foreign service, translating, and many other careers. A Spanish minor may enrich opportunities for students in business, in the social sciences, in nursing, and in agriculture, for example.

Program of Study

Orientatio	on		1 hour
COLL	101		
Communi	cations		9 hours
Written	Communications (6 hour	s)	
ENGL	101*		
ENGL	102*		
Oral Co	mmunications (3 hours)		
COMM	104*		
Humanitie	es		9 hours
Students (prefixes	s should select classes from s)	n two diffe	erent disciplines
ART	101, 106	HIST	101*#, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101#, 102*
FREN	101	TA	205
			0 /
Mathemat	rics		3 hours
Mathemat MATH	tics 125*#, 130*, 135*		3 nours
			7 hours
MATH Science Students	125*#, 130*, 135* s must meet the seven hou from different disciplines (p		7 hours
MATH Science Students courses	125*#, 130*, 135* s must meet the seven hou from different disciplines (p		7 hours
MATH Science Students courses	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb		7 hours nent by selecting two and at least one course
MATH Science Students courses with a la	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb	orefixes) a	7 hours nent by selecting two and at least one course Non-Lab
MATH Science Students courses with a la	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb Lab 101, 110, 120	orefixes) a	7 hours nent by selecting two and at least one course Non-Lab
MATH Science Students courses with a la BIOL BIOL	s must meet the seven hou from different disciplines (pb Lab 101, 110, 120 152*, 252*	orefixes) a	7 hours nent by selecting two and at least one course Non-Lab
MATH Science Students courses with a la BIOL BIOL CHEM	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb Lab 101, 110, 120 152*, 252* 101, 104, 111*	orefixes) a	7 hours nent by selecting two and at least one course Non-Lab
MATH Science Students courses with a la BIOL BIOL CHEM GEOL PHYS	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210*	orefixes) a	7 hours nent by selecting two and at least one course Non-Lab
MATH Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb) Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science s should select classes from	prefixes) a	7 hours nent by selecting two and at least one course Non-Lab 105
MATH Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science s should select classes from (s)	prefixes) a	7 hours nent by selecting two and at least one course Non-Lab 105
MATH Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and Students (prefixes	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science s should select classes from (s)	prefixes) a	7 hours nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines
MATH Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and (prefixes Civics (3	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science is should select classes from (s) 3 hours)	PHYS	7 hours nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines
MATH Science Students courses with a la BIOL BIOL CHEM GEOL PHYS Social and (prefixes Civics (3 HIST	125*#, 130*, 135* s must meet the seven hou from different disciplines (pb Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101, 190* d Behavioral Science should select classes from (s) 3 hours) 106*, 107*	PHYS n two diffe	7 hours nent by selecting two and at least one course Non-Lab 105 9 hours erent disciplines

GE CORE Electives 5 hours

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major Co	urses			18 hours
Require	d Courses (12 hou	urs)		
SPAN	102*	SPAN	201*	
SPAN	105*	SPAN	202*	
Approv	ed Electives (6 ho	urs)		
SPAN	106*#	SPAN	112*	
SPAN	107*	SPAN	207*	
SPAN	108*	SPAN	208*	
SPAN	109*	SPAN	209*	
SPAN	111*#			

^{# -} Preferred class for this degree option

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition MATH 125 Quantitative Reasoning SPAN 101 Beginning Spanish I (1st 8 wk) SPAN 102 Beginning Spanish II (2nd 8 wk) TOTAL	Hours 1 3 3 3 3 16
Spring Semester ENGL 102 Advanced English Comp SPAN 201 Intermediate Spanish II (1st 8 wk) SPAN 202 Intermediate Spanish II (2nd 9 wk) Approved Civics Course Approved Soc & Behavioral Science Course TOTAL	Hours 3 3 3 3 3 15
SECOND YEAR	
Fall Semester HIST 101 Western Civilization SPAN 105 Conversational Spanish I Approved GE Core Elective Approved Science Course Approved Spanish Elective TOTAL	3 3 2-3 3-5 3 14-17
Spring Semester Approved GE Core Elective Approved Humanities Course Approved Science Elective Approved Social and Behavioral Course Approved Spanish Elective TOTAL	Hours 2-3 3 3-5 3 14-17
TOTAL HOURS REQUIRED	61-65

^{*}Prerequisite required

	DER EGE			Spa	nis	h				
eneral Educ	cation Co			Curr				Done	Curr	То
Orientatio		1 hour	-							Ť
	COLL	101								
Communi	cations	9 hours								Τ
Communi		Communications (6 hours)				Oral C	communications (3 hours)			
	ENGL	101*				COMM				-
	ENGL	102*, 104*				CONTRACT	101			
Humanitie	25	9 hours	_					$\overline{}$		Т
	ART	101, 106				HIST	101*, 102*			
	ASL	101, 102*				MUSC				+-
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			1
	ENGL	230*, 235*, 240*, 245*					101 (Required for this AA), 102*			1
	FREN	101				TA	205			_
Mathemat	tics	3 hours								F
matricina	MATH	125* (Recommended)				MATH	130*, 135*			
Science		7 hours						$\overline{}$		₹
Science	Lab	7 Hours				Non-L	a h			-
		101 110 120								\vdash
	BIOL	101, 110, 120				PHYS	105			-
	BIOL	152*, 252*		·						₩
	CHEM	101, 104, 111*		·						-
	GEOL PHYS	115, 210* 101, 190*		·						-
Social and		ral Science 9 hours								_
	Civics (3	106*				FCON	201*, 202*			-
										-
	HIST	107*				GEOG				-
	PLSC	103*, 104*					101, 211*			-
						SOC	101			<u> </u>
GE Core E	Electives	5 hours								
Any addition	nal 5 credit	hours from courses listed above.								-
Courses ca	nnot be use	ed as Core electives if counted								-
under anoth	ner section	of this Program of Study.								-
Main 2		40.1				l I				Ħ
Major Cou		d Courses (12 hours)								
	SPAN	102 Begin Spanish II* (3)				SPAN	201 Intermed Spanish I* (3)			\vdash
	SPAN	105 Conv Spanish I* (3)		1		SPAN	202 Intermed Spanish II* (3)			1
	_	ed Electives (6 hours)	1	 		5.7114	(0)			十
	SPAN	106 Conv Spanish II* (3)				SPAN	112 Intro to Spanish Health Care II* (3)			+
						SPAN				1
	SPAN	1107 Topics in Spanish			i		LOT TOPICS III OPAHISH		1	1
	SPAN	107 Topics in Spanish								_
	SPAN SPAN SPAN	107 Topics in Spanish 108 Topics in Spanish 109 Topics in Spanish				SPAN SPAN	208 Topics in Spanish			_

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CERTIFICATE

Spanish Certificate

Those pursuing this certificate should complete it as a supplement to another career path. Those wishing to pursue a Spanish specific career (translating, interpreting, teaching Spanish, etc.) should pursue the complete Associate of Arts Degree in Spanish. This certificate will provide an opportunity for current students, and those already in the workforce, to demonstrate a level of Spanish proficiency that could appeal to potential employers in any field. Students who successfully complete the program will be prepared to take the globally recognized Oral Proficiency Interview (OPI). While there is no minimum required OPI score for obtaining this certificate, the exam will provide students with documentation providing the official oral proficiency level achieved by the end of this program. Students must earn a minimum of 18 hours for this certificate.

Program of Study

Spanish	Major Courses	15 hours
SPAN	101 Beginning Spanish (3)	
SPAN	102* Beginning Spanish II (3)	
SPAN	105* Conversational Spanish I (3)	
SPAN	201* Intermediate Spanish I (3)	
SPAN	202* Intermediate Spanish II (3)	
Electives	•	3 hours
SPAN	106*, 107*, 108*, 109*, 111*, 112*, 207	'*, 208*, 209*

^{*}Prerequisite requirement

Suggested Plan of Study

FIRST YEAR		
Fall Semester SPAN 101 Beginning Spanish I	TOTAL	3 3
Spring Semester SPAN 102 Beginning Spanish II	TOTAL	Hours 3 3
SECOND YEAR		
Fall Semester SPAN 201 Intermediate Spanish I SPAN 105 Conversational Spanish	TOTAL	3 3 6
Spring Semester SPAN 202 Intermediate Spanish II SPAN elective	TOTAL	3 3 6
Total Hours R	equired	18



CERTIFICATE Spanish

General Education Co	re	Done	Curr	To do	1		Done	Curr	To do
Required Courses	15 hours								
SPAN	101 Begin Spanish I (3)				SPAN	201 Intermed Spanish I* (3)			
SPAN	102 Begin Spanish II* (3)				SPAN	202 Intermed Spanish II* (3)			
SPAN	105 Conv Spanish I* (3)								
Electives	3 hours								
SPAN	106*				SPAN	112*			
SPAN	107*				SPAN	207*			
SPAN	108*				SPAN	208*			
SPAN	109*				SPAN	209*			
SPAN	111*								

Teaching (AAT)

This is a statewide AAT degree that all community colleges will offer. This degree includes courses that are required for any initial certification. The students will select the electives based on one of several criteria: preparation for the MoGEA/ACT/MOCA, requirement for a specific teaching credential, or a required course at the institution to which they plan to transfer. The courses in the degree will transfer to any institution in the state of Missouri that accepts the AAT degree. Additional requirements for the AAT degree are a minimum GPA of 2.75 and a passing score approved by DESE on each section of the MoGEA or National ACT composite score of 20 (superscore is allowed). Because GPA and test entrance score requirements vary by institution, it is important to work closely with your education advisor at Crowder and the institution to which you plan to transfer. Students must register with FCSR and have a clearance letter before completing any observation or field experience in schools.

Program of Study

Orientat	ion		1 hour					
COLL	101							
Commu	nications		9 hours					
Writter	n Communications (6 hou	ırs)						
ENGL	101*							
ENGL	102*							
	ommunications (3 hours)							
COMM								
	Humanities 9 hours							
Studen (prefixe	ts should select classes fro	m two di	ferent disciplines					
ART	101, 106	HIST	101*, 102*					
ASL	101, 102*	MUSC	,					
	109*, 222*, 225*	PHIL						
ENGL	· · · · · ·	SPAN	101, 102*					
FREN		TA	205					
Mathem	atics		3 hours					
MATH	125*							
MATH Science			7 hours					
Science Studen								
Science Studen	ts must meet the seven ho							
Science Studen one lab	ts must meet the seven ho course and one non-lab co		ement by selecting at least Non -Lab					
Science Studen one lab	ts must meet the seven how course and one non-lab of Lab 101, 110, 120	ourse	ement by selecting at least Non -Lab					
Science Studen one lab	ts must meet the seven hor course and one non-lab or <i>Lab</i> 101, 110, 120 152*, 252*	ourse	ement by selecting at least Non -Lab					
Science Studen one lab BIOL BIOL	ts must meet the seven hor course and one non-lab or Lab 101, 110, 120 152*, 252* 101, 104, 111*	ourse	ement by selecting at least Non -Lab					
Science Studen one lab BIOL BIOL CHEM	ts must meet the seven hor course and one non-lab or Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210*	ourse	ement by selecting at least Non -Lab					
Science Studen one lab BIOL BIOL CHEM GEOL PHYS	ts must meet the seven hor course and one non-lab of Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101 (Elementary majors) nd Behavioral Science	ourse PHYS	Non -Lab 105 9 hours					
Science Studen one lab BIOL BIOL CHEM GEOL PHYS Social a. Studen	ts must meet the seven hor course and one non-lab or Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101 (Elementary majors) Ind Behavioral Science ts should select classes fro	ourse PHYS	ement by selecting at least Non -Lab 105 9 hours					
Science Studen one lab BIOL BIOL CHEM GEOL PHYS Social a. Studen (prefixe	ts must meet the seven hor course and one non-lab or Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101 (Elementary majors) Ind Behavioral Science ts should select classes from the sel	PHYS	Non -Lab 105 9 hours fferent disciplines					
Science Studen one lab BIOL BIOL CHEM GEOL PHYS Social a. Studen (prefixe HIST	ts must meet the seven hor course and one non-lab or Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101 (Elementary majors) Ind Behavioral Science ts should select classes from the sel	PHYS om two dif	Non -Lab 105 9 hours fferent disciplines 201*, 202*					
Science Studen one lab BIOL BIOL CHEM GEOL PHYS Social a. Studen (prefixe	ts must meet the seven hor course and one non-lab or Lab 101, 110, 120 152*, 252* 101, 104, 111* 115, 210* 101 (Elementary majors) Ind Behavioral Science ts should select classes from the sel	PHYS	Non -Lab 105 9 hours fferent disciplines					

Preferred GE CORE Electives

better (superscore is allowed). Overall GPA of 2.75 is required 5 hours

Any additional 5 credit hours from courses listed above. Courses cannot be used as Core electives if counted under another section of this Program of Study

Major (Courses		18 hours			
F	Required Courses	(12 hours)				
EDUC	125	EDUC	231*			
EDUC	240*	EDUC	251*			
Approv	ed Electives (6 ho	ours) (Check wit	h advisor)			
ECON	201*, 202*	GEOG	111			
EDUC	205	GEOL	210*			
EDUC	206	PSYC	204			
EDUC	212*	PSYC	211*			
Any cor	ntent specific cours	es for Middle Sch	ool or HS cer	tification		
Students must pass the MoGEA with a DESE approved score in each section of have National ACT composite score of 20 or						

Suggested Plan of Study

FIRST YEAR

Fall Semester BIOL 101 General Biology COLL 101 College Orientation EDUC 125 Introduction to Education ENGL 101 English Composition I PSYC 101 General Psychology TOTAL	Hours 4 1 3 3 14
Spring Semester COMM 104 Fundamentals of Speech EDUC 240 Education of Exceptional Learners ENGL 102 English Composition II HIST 107 - OR - HIST 106 MATH 125 Quantitative Reasoning Approved GE Core Elective	3 3 3 3 3 3 2
TOTAL	17
SECOND YEAR	
Fall Semester EDUC 231 Educational Psychology PLSC 103 Nat'l, State, Local Gov't Approved GE Core Elective Approved Humanities Course Approved Science Course TOTAL	Hours 3 3 3 3 1 3-5 15-17
Spring Semester EDUC 251 Teaching Prof w/Field Exp Approved Education Elective Approved Education Elective Approved Humanities Course Approved Humanities Course TOTAL	Hours 3 3 3 3 15
TOTAL HOURS REQUIRED	61-63

^{*}Prerequisite required

^{# -} Preferred class for this degree option



ASSOCIATE OF ARTS DEGREE

Teaching (AAT)

neral Edu			Done	curr	To do			Done	Curr	10
Orientatio		1 hour								
	COLL	101								
Commun	ication	9 hours								
		Communications (6 hours)				Oral C	ommunications (3 hours)			-
	ENGL	101*				COMM				
	ENGL	102*, 104*				COIVIIVI	104			-
ı.	LINGL	102 , 104								
Humaniti	es	9 hours								
	DESE R	equirement (3 hours)				Additio	onal 6 hours			
1	ART	101				ART	106			_
ı	MUSC	101				ASL	101, 102*			_
						ENGL	109*, 222*, 225*			_
						ENGL	230*, 235*, 240*, 245*			_
						FREN	101			_
						HIST	101*, 102*			_
						PHIL	101*, 121, 201*, 202*			_
						SPAN	101, 102*			<u> </u>
						TA	205			L
Mathema	tice	3 hours						1		₹
	MATH	125* (Recommended)				MATH	130*, 135*			╁
	VV	120 (Recommended)				100 (1111	100 ; 100			
Science		7 hours								
	Lab					Non-La	nb			
	BIOL	101, 110, 120				PHYS	105			_
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								_
<u> </u>	PHYS	101 (⊟ementary majors)	<u> </u>							L
Social an	d Beha	vioral Science 9 hours								Т
	Choose	one from each line								Г
ŀ	HIST	106*, 107*				ECON	201*, 202*			
F	PLSC	103*, 104*				GEOG	111			_
ı	PSYC	101				PSYC	101#, 211*			_
Dueferne	1050	sus Flootius S. F. bouws						_		
Preterred	GE CC	ore Electives 5 hours								⊢
Any addition	onal 5 cr	edit hours from courses listed above.								-
Courses ca	annot be	used as Core electives if counted under								-
another se	ction of	this Program of Study.								-
Major Co		18 hours								L
	-	d Courses (12 hours)					es (6 hours) (Check with advisor)			
	EDUC	125 Introduction to Education (3)					201 Prin of Economics* (3)			-
	EDUC	231 Educational Psychology* (3)				EDUC	205 Music for ⊟em Teachers* (3)			_
	EDUC	240 Education of Exceptional Learners* (3	3)			EDUC	206 Lit for Children* (3)			_
i i	EDUC	251 Teaching Prof w /FE* (3)				EDUC	212* Educational Technology* (3)			
							111 World Regional Geography (3)			-
						GEOL	210 Earth & Space Science* (4)			-
						PSYC	204 Applied Behavior Analysis (3)			-
						PSYC	211 Lifespan Development* (3)		<u> </u>	<u></u>
24 1 4	must n	eass the MOGEA or ACT with a DESE a	nnrove	ed sc	ore in	each s	ection.	T		Г
Students										

Programs of Study 174 V1.04 **2019-20**

Theatre AA

The Theatre Department has three general goals. First, all courses encourage the students to appreciate the theatre as an art form. Second, the courses encourage an understanding of how live theatre develops from script to performance. Third, the courses provide the student with many opportunities to experience live theatre performance and to participate in Crowder College Theatre productions in both performance and technical areas.

Program of Study

Orientation			1 hour
COLL	101		
Communica			9 hours
	Communications (6 hou	urs)	
ENGL	101*		
ENGL	102*	,	
COM	ommunications (3 hours)	,	
M	104*		
Humanities			9 hours
Studen	ts should select classes fro	om two di	fferent disciplines
(prefixe	es)		
ART	101, 106	HIST	101*#, 102*
ASL	101, 102*	MUSC	101
ENGL	109*, 222*, 225*	PHIL	101*, 121, 201*, 202*
ENGL	230*, 235*, 240*, 245*	SPAN	101, 102*
FREN	101	TA	205
Mathematic	es		3 hours
MATH	125*#, 130*, 135*		
Science			7 hours
	must meet the seven hour	•	•
with a lab	om different disciplines (pr	elixes) a	nd at least one course
with a lab	Lab		Non-Lab
BIOL	101, 110, 120	PHYS	105
BIOL	152*, 252*	гпіз	105
CHEM	•		
_	' '		
GEOL	115, 210*		
GEOL PHYS	115, 210* 101, 190*		9 hours
GEOL PHYS Social and	115, 210* 101, 190* Behavioral Science	om two di	9 hours fferent disciplines
GEOL PHYS Social and Studen	115, 210* 101, 190* Behavioral Science ts should select classes fro	om two di	
GEOL PHYS Social and Studen (prefixe	115, 210* 101, 190* Behavioral Science ts should select classes fros)	om two di	
GEOL PHYS Social and Studen (prefixe Civics (3)	115, 210* 101, 190* Behavioral Science ts should select classes fros)	om two di ECON	fferent disciplines
GEOL PHYS Social and Studen (prefixe Civics (3)	115, 210* 101, 190* Behavioral Science ts should select classes from s) hours)		fferent disciplines 201*, 202*
GEOL PHYS Social and Studen (prefixe Civics (3)	115, 210* 101, 190* Behavioral Science ts should select classes from (s) hours) 106*, 107*	ECON	fferent disciplines 201*, 202* 111
GEOL PHYS Social and Studen (prefixe Civics (3)	115, 210* 101, 190* Behavioral Science ts should select classes from (s) hours) 106*, 107*	ECON GEOG	fferent disciplines 201*, 202* 111
GEOL PHYS Social and Studen (prefixe Civics (3)	115, 210* 101, 190* Behavioral Science ts should select classes from (s) hours) 106*, 107* 103*	ECON GEOG PSYC	201*, 202* 111 101, 211*
GEOL PHYS Social and Studen (prefixe Civics (3) HIST PLSC	115, 210* 101, 190* Behavioral Science ts should select classes from (s) hours) 106*, 107* 103*	ECON GEOG PSYC SOC	fferent disciplines 201*, 202* 111 101, 211* 101 5 hours
GEOL PHYS Social and Studen (prefixe Civics (3) HIST PLSC	115, 210* 101, 190* Behavioral Science ts should select classes from s) hours) 106*, 107* 103* Electives	ECON GEOG PSYC SOC	201*, 202* 111 101, 211* 101 5 hours d above. Courses

Suggested Plan of Study

FIRST YEAR

Fall Semester COLL 101 College Orientation COMM 104 Fundamentals of Speech ENGL 101 English Composition I MATH 125 Quantitative Reasoning TA 105 Acting I TA 106/116 Theatre Practicum	Hours 1 3 3 3 3
(Performance or Technical) TA 205 Introduction to Theatre	1 3
TOTAL	17
Spring Semester ENGL 102 English Composition II TA 107/117 Theatre Practicum (Performance or Technical) TA 115 Stagecraft (Spring only) Approved Civics Course Approved Science Course TOTAL	Hours 3 1 3 3 3-5 13-15
SECOND YEAR	
Fall Semester	Hours

TA 206/216 Theatre Practicum	
(Performance or Technical)	1
Approved GE Core Elective	3
Approved Science Course	3-5
Approved Soc & Behavioral Science Course	3
Approved Theatre Elective	3
TOTAL	13-15
Spring Semester	Hours
TA 208 Scene Work	3
Approved GE Core Elective	2
Approved Humanities Course	3
Approved Humanities Course	3
Approved Soc & Behavioral Science Course	3
Approved Theatre Elective	2
TOTAL	16

^{*}Prerequisite required

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.

Major Courses

105 115

108

112

125, 225

Approved Electives

TA

TA

TΑ

TA

TΑ

12 hours

6 hours

Theatre Practicum

Theatre Practicum

Topics in Theatre

208

180

TΑ

TΑ

TΑ

TΑ

TΑ

CROW COLI	LEGE_	ASSOCI					DEGREE			
			_	The		e				
eneral Edu			Done	Curr	o do			Done	Curr	То
Orientatio		1 hour								
	COLL	101								
Commun	ications	9 hours								
		Communications (6 hours)					ommunications (3 hours)			
	ENGL	101*				COMM	104*			
	ENGL	102*, 104*								느
Humanitie	es	9 hours								П
	ART	101, 106				HIST	101* (Recommended), 102*			
	ASL	101, 102*				MUSC	101			
	ENGL	109*, 222*, 225*				PHIL	101*, 121, 201*, 202*			
	ENGL	230*, 235*, 240*, 245*				SPAN	101, 102*			
	FREN	101				TA	205			
Mathema	tics	3 hours			П					
	MATH	125* (Recommended)				MATH	130*, 135*			
Science		7 hours	1		T			_		
Ociciico	Lab	7 Hours				Non-La	1 <i>b</i>			
	BIOL	101, 110, 120				PHYS	105			
	BIOL	152*, 252*								
	CHEM	101, 104, 111*								
	GEOL	115, 210*								
	PHYS	101, 190*								
Social and	d Behavioi	ral Science 9 hours			П					Т
	Civics (3	hours)								
	HIST	106*				ECON	201*, 202*			
	HIST	107*				GEOG	111			
	PLSC	103*, 104*				PSYC	101, 211*			
						SOC	101			<u></u>
GE Core	Electives	5 hours								П
Δnv additio	nal 5 credit	hours from courses listed above.								
		ed as Core electives if counted								
		of this Program of Study.								
arraer arret										L
Major Co	urses	12 hours				Approv	ved Electives 8 hours			Г
	TA	105 Acting I (3)				TA	108 Playw riting (3)			
	TA	115 Stagecraft (3)				TA	112 Directing (3)			
	TA	208 Scenew ork (3)				TA	125, 225 Summer Theatre (3)			
		Theatre Practicum (3)				TA	180 Stage Makeup (3)			
						TA	Theatre Practicum (1-3)			
						TA	Topics in Theatre (1-4)			

Programs of Study 176 V1.04 **2019-20**

Veterinary Technology AAS

The Crowder College Veterinary Technology Program is a 78 credit hour program which is fully accredited by the American Veterinary Medical Association (AVMA) and prepares students for careers as veterinary technicians. This is a selective admission program. Applications are accepted until March 30 for the class which begins the following August. An ACT test result must accompany the application. Students must complete a minimum of BIOL 101 or BIOL 110, be eligible to take MATH 100 or higher, be eligible for ENGL 101 or higher, be college-level in reading, and must have worked with or observed a licensed veterinarian in practice for a minimum of 20 clock hours to be eligible for the program. To be licensed as a Registered Veterinary Technician in Missouri, a student must be at least 19 years of age, graduate from an AVMA accredited program, pass the Veterinary Technician National Examination, and pass the Missouri State Veterinary Medical Board Examination. An applicant must be approved by the Missouri State Veterinary Medical Board, or the State Veterinary Medical Board of any other state in which the student wishes to be licensed, before being allowed to sit for these examinations.

Program of Study

Orientation				4 6			
AGRI	111	OR	COLL	1 hour			
		OIX	COLL	-			
Communica		-4	'O ! \	6 hours			
	Communic	ations (3 nours)				
	ENGL 101* Oral Communications (3 hours)						
		ons (3 n	ours)				
COMM							
Mathematic	_			3 hours			
MATH	135"						
Civics	400#			3 hours			
PLSC	103*		HIST	,			
Science				14 hours			
	101 (4)	OR	BIOL	110* (5)			
_	220* (5)						
CHEM	104 (4)	OR	CHEM	111* (5)			
General Ag				15 hours			
AGEC	223 (3)						
ANSC	114 (4)						
ANSC	180* (2)	OR	VETC	101 Intro to Vet Tech (2)			
ANSC	223* (3)						
ANSC	233 (3)						
Program Co	ore			35 hours			
VETC	110* (2)		VETC	250* (3)			
VETC	120* (3)		VETC	263* (3)			
VETC	130* (3)		VETC	270* (1)			
VETC	140* (3)		VETC	280* (2)			
VETC	180* (4)		VETC	284* (4)			
VETC	220* (3)		VETC	285* (1)			
VETC	230* (2)		VETC	286* (1)			

*Prerequisite requirement

Suggested courses for students with a desire to take additional credits not required for the Veterinary Technology AAS degree: Medical Terminology, Artificial Insemination and Reproduction, Feeds and Nutrition, Meat Science, Public Relations in Agri-Business, Business Math, Spanish, or general education courses toward an Associate of Arts degree. Students interested in Biomedical Sciences at the University of Missouri, Columbia must take ENGL 102 and MATH 135.

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation

Suggested Plan of Study							
FIRST YEAR							
Fall Semester	Hours						
AGRI 111 – OR – COLL 101	1						
ANSC 114 Animal Science	4						
BIOL 101 General Biology	5						
MATH 135 Algebra for Calculus	3						
TOTAL	13						
Spring Semester	Hours						
AGEC 223 Ag Computer Applications	3						
ANSC 180 Intro to Veterinary Science	2						
CHEM 104 Chemistry for Health Sciences	4						
ENGL 101 English Composition I	3						
TOTAL	12						
APPLY FOR THE VETERINARY TECHNOLOGY PROGRAM IN APRIL OF THIS SPRING SEMESTER							
SECOND YEAR							
Fall Semester	Hours						
COMM 104 Fundamentals of Speech	3						
VETC 110 Sanitation and Animal Care	2						
VETC 140 Companion Animal Technology	3						
VETC 180 Vet Anatomy and Physiology	4						

IOIAL	12
Spring Semester	Hours
ANSC 233 Horse Science	3
VETC 120 Veterinary Hospital Technology I	3
VETC 130 Clinical Pathology I	3
VETC 285 Vet Tech Clinical Experience I	1
Approved Civics Course	3
TOTAL	13
Summer Semester	Hours
VETC 284 Vet Tech Internship	4

12

THIRD YEAR

TOTAL

		IIIIND I LAN	
Fall Sem	estei	•	Hours
ANSC	223	Farm Animal Health	3
BIOL	220	General Microbiology	5
VETC	220	Vet Hospital Technology II	3
VETC	280	Radiology and Elect Procedures	2
		TOTAL	13
Spring S	emes	ster	Hours
VETC	230	Lab Animal/Avian Technology	2
VETC	250	Clinical Pathology II	3
VETC	263	Large Animal Med/Surg	3
VETC	270	Board Review	1
VETC	286	Vet Tech Clinical Experience II	1
		TOTAL	10
		TOTAL HOURS REQUIRED	77

^{# -} Preferred class for this degree option

CROWI	CE						NCE DEGREE			
COLLE	GE	Veteri	inar	y Te	echi	nolo	gy			
Done Curr To do									Curr	To d
Orientation		1 hour								
	AGRI	111				OR	COLL 101			
Communica	tions	6 hours	Т					Т		
	Written	Communications (3 hours)								
	ENGL	101*								
	Oral Co	mmunications (3 hours)								
	COMM	104*	<u> </u>							<u> </u>
Mathematic	s	3 hours	Т					Т		
	MATH	135*								
Civics		3 hours	Т					Т		
	HIST	106*				PLSC	103*, 104*			
	HIST	107*								
Science		14 hours	Т					Т		
	BIOL	101				CHEM	104			
	OR	BIOL 110*				OR	CHEM 101, 111*			
	BIOL	220*								
General Agr	riculture	15 hours	T					Т		
	AGEC	223 Ag Comp Apps (3)								
	ANSC	114 Animal Sci (4)								
	ANSC	180 Intro to Vet Science* (2)				OR	VETC 101 Intro to Vet Tech (2)			
	ANSC	223 Farm Animal Health* (3)								
	ANSC	233 Horse Science (3)								
Program Co	ore	35 hours								
	VETC	110 Sanitat & Animal Care* (2)				VETC	250 Clinical Path II* (3)			
	VETC	120 Vet Hospital Tech I* (3)				VETC	263 Large Animal Med/Surg* (3)			
	VETC	130 Clinical Path I* (3)				VETC	270 Board Review * (1)			
	VETC	140 Companion Animal Tech* (3)				VETC	280 Radiology & Elect Procs* (2)			
	VETC	180 Vet Anatomy and Phys* (4)				VETC	284 Vet Tech Internship* (4)			
	VETC	220 Vet Hospital Tech II* (3)				VETC	285 Vet Tech Clinical Exp I* (1)			
	VETC	230 Lab Animal/Avian Tech* (2)				VETC	286 Vet Tech Clinical Exp II* (1)			

Welding: Welding Certificate (Plate)

Welding: Welding Certificate (Pipe & Plate)

Welding: Welding Certificate (Pipe & Plate & Fabrication)

Welding: Welding Option AAS

The Advanced Manufacturing Technology program prepares students for employment in industries with automated manufacturing processes. The program is built around a set of core classes designed to give students the basic skill set required for this industry coupled with specialty courses allowing students to focus on various related options. This program of study addresses the Welding Option.

The Plate, Pipe & Plate, and Pipe & Plate & Fabrication Certificates prepare students for employment as entry level welders using Electric Arc and Pipe & Plate (& Fabrication) welding technology. Students will be introduced to Oxy-fuel cutting (OFC), Flux Core welding, and Carbon Arc Air-Cutting. The program will instruct the students in advanced welding applications for pipe welding which will include the Electrical Arc Welding Technology. This course will also provide the student with a technical understanding of tacking and welding techniques for completing projects to reflect industry standards. Additionally, the Pipe & Plate & Fabrication Certificate students will learn a technical understanding of advanced cutting operations including Numerical Control (NC) programming, and robotic controls.

Program of Study

Plata Cartifi			
Plate Certiff	cate Coul	rses	16 hours
WELD	117	Blue Print Reading (2)	
WELD	151	Welding Theory I (2)	
WELD	152*	Welding Theory II (2)	
WELD	153*	Fillet Plate Lab (5)	
WELD	154*	Groove Plate Lab (5)	
Pipe & Plate	Certifica	te Courses	15 hours
WELD	201*	Welding Theory III (2)	
WELD	202*	Welding Theory IV (2)	
WELD	211*	Pipe Groove Lab (7)	
WELD	216*	Pipe and Plate Fabrication	Lab (4)
Pipe & Plate	& Fab C	ertificate Courses	15 hours
CNS	105 & 10	06 Technical Career Developr	ment (2)
DRFT	101	Intro to Eng Drwg and Print	Reading (3)
WELD	124	Fabrication Methods I (2)	
WELD	135	Basic Metallurgy (2)	
WELD	140*	Fabrication Methods II (2)	
WELD	213*	Advanced Pipe Groove Lab	(4)
Orientation			1 hour
COLL	101	College Orientation	
Communica			9 hours
Written	Communi	cations (6 hours)	
		cations (o noars)	
ENGL	101*	cations (o notics)	
ENGL ENGL	101* 102*	cauons (o nours)	
ENGL ENGL ENGL	101* 102* 203*	, ,	
ENGL ENGL ENGL <i>Oral Col</i>	101* 102* 203* mmunicat	ions (3 hours)	
ENGL ENGL ENGL <i>Oral Col</i> COMM	101* 102* 203* mmunicat 104*	, ,	3 hours
ENGL ENGL ENGL <i>Oral Col</i>	101* 102* 203* mmunicat 104*	, ,	3 hours
ENGL ENGL ENGL Oral Col COMM	101* 102* 203* mmunicat 104*	, ,	3 hours
ENGL ENGL ENGL Oral Con COMM Mathematic MATH MATH	101* 102* 203* mmunicat 104* s 104* 135*	ions (3 hours)	3 hours
ENGL ENGL ENGL Oral Con COMM Mathematic MATH MATH Civics HIST	101* 102* 203* mmunicat 104* s 104* 135*	ions (3 hours)	
ENGL ENGL ENGL Oral Con COMM Mathematic MATH MATH Civics HIST PLSC	101* 102* 203* mmunicat 104* s 104* 135* 106*, 10 103*	ions (3 hours)	3 hours
ENGL ENGL ENGL Oral Con COMM Mathematic MATH MATH Civics HIST	101* 102* 203* mmunicat 104* s 104* 135* 106*, 10 103*	ions (3 hours)	3 hours

^{*}Prerequisite requirement

- Preferred class for this degree option

Suggested Plan of Study

Fall Semester	Hours
WELD 117 Blue Print Reading	2
WELD 135 Basic Metallurgy (PPF)	2
WELD 151 Welding Theory I	2 2
WELD 152 Welding Theory II WELD 153 Fillet Plate Lab	2
	5
WELD 154 Groove Plate Lab	5
TOTAL	18
Graduate with AMT: Welding Plate Certificate	
Spring Semester	Hours
DRFT 101 Intro to Engineering Drawing (PPF)	3
WELD 201 Welding Theory III	2
WELD 202 Welding Theory IV	2
WELD 211 Pipe Groove Lab	2 7
WELD 216 Pipe and Plate Fabrication Lab	4
TOTAL	18
Graduate with AMT: Welding Pipe & Plate Certification	cate
SECOND YEAR	
Fall Semester	Hours
CNS 105 CNS 105 & 106	2
WELD 124 Fabrication Methods I (PPF) WELD 140 Fabrication Methods II (PPF)	2 2
WELD 140 Fabrication Methods II (PPF) WELD 213 Adv Pipe Groove Lab (Fabrication) (I	
Approved Written Communications Course	3
TOTAL	13
Graduate with AMT: Welding Pipe, Plate, & Fab C	. •
eradado marramo rodama y ripo, rilado, er da	
Spring Semester	Hours
AMT 182 Intro to Automated Robotics	3
COLL 101 College Orientation	1
COMM 104 Fundamentals of Speech	3
Approved Civics Course	3
Approved Mathematics Course	3
Approved Written Communications Course	3
TOTAL Graduate with AMT: Welding Option AAS	16
Graduate with AWT. Welding Option AAS	
Total Plate Certificate Hours Required	16
Additional Hours Needed for P&P Cert	15
Total P&P Certificate Hours Required	31
Additional Hours Needed for P&P&F Cert	15
Additional Hours Needed for AAS	19
Total AAS Hours Required	65

Courses for Certificate	
Additional Courses for AAS Degree	



CROWDER CERTIFICATE COLLEGE Welding Certificate (Plate) Done Curr To do

		Done	Curr	To do
Major courses	16 hours			
WELD	117 Blue Print Reading (2)			
WELD	151 Welding Theory I (2)			
WELD	152 Welding Theory II* (2)			
WELD	153 Welding Lab I (5)			
WELD	154 Welding Lab II (5)			

	CROWDER										
	COLLEGE	Welding Certificate (Pipe & Plate)									
			Done								
ı	Major courses	31 hours									
	WELD	117 Blue Print Reading (2)									
	WELD	151 Welding Theory I (2)			_						
	WELD	152 Welding Theory II* (2)			_						
	WELD	153 Welding Lab I (5)									
	WELD	154 Welding Lab II (5)									
	WELD	201 Welding Theory III* (2)									
	WELD	202 Welding Theory IV* (2)									
	WELD	211 Welding Lab III* (7)	_		-						
	WELD	216 Pipe and Plate Fabrication Lab* (4)			_						

© CROWDER CERTIFICATE								
COLLEGE	Welding Certificate (Pipe	€ &	Plat	te &	Fal	brication)		
	Done Curr To do							
Major courses	46 hours							
CNS	105 & 106 Technical Career Development I & II (2)							
DRFT	101 Intro to Eng Drw g and Print Reading (3)							
WELD	117 Blue Print Reading (2)							
WELD	124 Fabrication Methods I (2)							
WELD	135 Basic Metallurgy (2)							
WELD	140 Fabrication Methods II* (2)							
WELD	151 Welding Theory I (2)							
WELD	152 Welding Theory II* (2)							
WELD	153 Welding Lab I (5)							
WELD	154 Welding Lab II (5)							
WELD	201 Welding Theory III* (2)							
WELD	202 Welding Theory IV* (2)							
WELD	211 Welding Lab III* (7)							
WELD	213 Advanced Pipe Groove Lab* (4)							
WELD	216 Pipe and Plate Fabrication Lab* (4)							
								·

CROWDER ASSOCIATE OF APPLIED SCIENCE DEGREE												
Advanced Manufacturing Technology: Welding Option												
			Done	Curr	To do			Done	Curr	To d		
Orientati	ion	1 hour										
	COLL	101										
Commu	nications	9 hours						$\overline{}$		П		
	Written	Communications (6 hours)				Oral C	Communications (3 hours)					
	ENGL	101*				COMM	104*					
	ENGL	102*, 104*										
	ENGL	203*										
Mathem	atics	3 hours	1		1	1		1	1			
wautem	MATH	135*				MATH	104*					
	IVIATIT	193				IVIA III	104			<u> </u>		
Civics		3 hours										
	HIST	106*				PLSC	103*, 104*					
	HIST	107*										
Require	d Courses	49 hours					T	Т		Т		
rioquii o	AMT	182 Intro to Automated Robotics (3)				WELD	152 Welding Theory II* (2)					
	CNS	105 & 106 Tech Career Dev (2)				WELD	153 Welding Lab I* (5)					
	DRFT	101 Intro to Eng, Drawing & PR (3)				WELD	154 Welding Lab II* (5)					
	WELD	117 Welding Blue Print Reading* (2)					201 Welding Theory III* (2)					
	WELD	124 Fabrication I* (2)					202 Welding Theory IV* (2)					
	WELD	135 Basic Metallurgy* (2)					211 Welding Lab III* (7)					
	WELD	140 Fabrication Methods II* (2)					213 Adv Pipe Groove Lab* (4)					
	WELD	151 Welding Theory I* (2)					216 Pipe and Plate Fab Lab* (4)					
	*Preregui	isite course(s) or minimum test scores	require	d. See	catalo							

180 V1.04 Programs of Study 2019-20

Welding: Electric Arc Welding Certificate

This certificate program prepares students for employment as entry-level welders using any one or all of the three basic types of Electric Arc Welding Technology: Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW) and/or Shielded Metal Arc Welding (SMAW). Students successfully completing this certificate program will be able to perform basic GMAW, GTAW, and SMAW tasks, read/interpret blueprints, complete basic math calculations, demonstrate basic computer/Internet skills, and communicate effectively.

Program of Study

Orientation	1	1 hour
COLL	101	
Major Cour	ses	12 hours
WELD	113	Introduction to Welding (3)
WELD	145*	Gas Metal Arc Welding (GMAW/MIG) (2)
WELD	150*	Gas Tungsten Arc Welding (GTAW/TIG) (5)
WELD	155*	Shielded Metal Arc Welding (SMAW) (5)
Support Co	ourses	5-6 hours
BSAD	115	Computer Concepts (3) - OR - BSAD 125
DRFT	101	Intro to Eng Drawing (3) – OR – WELD 117* (2)

^{*}Prerequisite requirement

Suggested Plan of Study

First Semester COLL 101 College Orientation WELD 117 Blue Print Reading – OR – DRFT 10 WELD 113 Introduction to Welding WELD 145 Gas Metal Arc Welding TOTAL	Hours 1 1 (3) 2 3 3 9
Second Semester	Hours
BSAD 115 Comp Concepts – OR – BSAD 125	3
WELD 150 Gas Tungsten Arc Welding	3
WELD 155 Shielded Metal Arc Welding	3
TOTAL	9
TOTAL HOURS REQUIRED	18-19



CERTIFICATE Electric Arc Welding Done Curr To do

Orientation	1 hour		
COLL	101 College Orientation	 	
Major Courses	12 hours		
Major Courses	12 110018		
WELD	113 Intro to Welding (3)	 	
WELD	145 Gas Metal Arc Welding (GMAW)* (3)	 	
WELD	150 Gas Tungsten Arc Welding* (3)	 	
WELD	155 Shielded Metal Arc Welding* (3)	 	
Support Courses	5-6 hours		
BSAD	115 Computer Concepts (3)	 	
OR	BSAD 125 Computer Applications (3)	 	
DRFT	101 Intro to Engineering Drawing (3)		
OR	WELD 117 Blue Print Reading (2)		

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Automotive Technology: Basic Engines Certificate	93
Behavior Technician Certificate	95
Biology AA	97
Business Administration AA	99
Business: Accounting Option AAS	101
Business: Management Option AAS	103
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Chemistry AA	109
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CNS: PC Repair Certificate	111
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Fire Science Certificate	129
General Studies AA	131
Graphic Design AA	133
History AA	135
Journalism and Public Relations AA	137
Mathematics AA	139
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Physics AA	155
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Missouri Higher Education Transfer Core Curriculum at Crowder College

		ences (9 Credit Hours Total)	
		ur requirement by selecting courses from	
two different disciplines (prefi	xes)	, including at least one Civics course	
Other SBS Courses, 6 Credit Hours Required		Civics, 3 Credit Hours Required	
Principles of Macro Economics I, ECON 201 (MOTR ECON 101)	3	U.S. History I, HIST 106 (MOTR HIST 101)	3
Principles of Micro Economics II, ECON 202 (MOTR ECON 102)	3	U.S. History II, HIST 107 (MOTR HIST 102)	3
Principles of Agriculture Economics, AGEC 123 (MOTR ECON 102)	3	National, State, Local Government, PLSC 103 (MOTR POSC 101)	3
{For Agriculture Majors Only}			
World Regional Geography GEOG 111 (MOTR GEOG 101)	3		
General Psychology, PSYC 101 (MOTR PSYC 100)	3		
Life Span Development, PSYC 211 (MOTR PSYC 200)	3		
General Sociology, SOC 101 (MOTR SOCI 101)	3		
	al C	ommunications (9 Credit Hours Total)	
Written Communication, 6 Credit Hours Required		Oral Communication, 3 Credit Hours Required	
English Composition, ENGL 101 (MOTR ENG 100)	3	Fundamentals of Speech, COMM 104 (MOTR COMM 110)	3
Advanced English Composition, ENGL 102 (MOTR ENG 200)	3		
Natural Science	es (7	7 Credit Hours Total)	
Students must meet the seven credi	t ho	ur requirement by selecting courses from	
		s), including at least one Lab course	
Lab		Non-Lab	
	T _E		12
General Biology, BIOL 101 (MOTR BIOL 100L) General Zoology, BIOL 110 (MOTR BIOL 150L)	5	Descriptive Astronomy, PHYS 105 (MOTR ASTR 100) UNDER REVIEW	3
General Botany, BIOL 120 (MOTR BIOL 150L)	5		_
Human Anatomy & Physiology I, BIOL 150 (MOTR LIFS 100L)	5		_
	5		
Human Anatomy & Physiology II, BIOL 252 (MOTR LIFS 150L) Survey of Chemistry, CHEM 101 (MOTR CHEM 100L)	5		
Chemistry for Health Sciences, CHEM 104 (MOTR CHEM 100L)	5		
General Chemistry I, CHEM 111 (MOTR CHEM 150L)	5		_
Introduction to Geology, GEOL 115 (MOTR GEOL 100L)	5		_
Earth and Space Science for Teachers, GEOL 210 (MOTR PHYS 110L)	4		
Survey of Physical Science, PHYS 101 (MOTR PHYS 110L) UNDER REVIEW	5		
General Physics I, PHYS 190 (MOTR PHYS 200L)	5		
		s (3 Credit Hours Total)	
Algebra for Calculus, MATH 135 (MOTR MATH 130)		,	3
Quantitative Reasoning, MATH 125 (MOTR MATH 120)			3
Elementary Statistics, MATH 130 (MOTR MATH 110)			3
	_ Δ	rts (9 Credit Hours Total)	
		selecting courses from two different disciplines (prefixes))
Art Appreciation, ART 101 (MOTR ARTS 100)	3	Western Civilization I, HIST 101 (MOTR WCIV 101)	3
Drawing I, ART 106 (MOTR PERF 105D)	3	Western Civilization II, HIST 102 (MOTR WCIV 102)	3
Beginning American Sign Language I, ASL 101	3	Music Appreciation, MUSC 101 (MOTR MUSC 100)	3
Beginning American Sign Language II, ASL 102	3	Introduction to Western Philosophy, PHIL 101 (MOTR PHIL 100)	3
Introduction to Literature ENGL 109 (MOTR LITR 100)	3	World Religions, PHIL 121 (MOTR RELG 100)	3
World Literature I, ENGL 222 (MOTR LITR 200)	3	Ethics, PHIL 202 (MOTR PHIL 102)	3
World Literature II, ENGL 225 (MOTR LITR 200)	3	Beginning Spanish I, SPAN 101 (MOTR LANG 103)	3
American Literature I, ENGL 230 (MOTR LITR 101)	3	Beginning Spanish II, SPAN 102 (MOTR LANG 104)	3
American Literature II, ENGL 235 (MOTR LITR 101)	3	Introduction to Theatre, TA 205 (MOTR THEA 100A)	3
British Literature I, ENGL 240 (MOTR LITR 102)	3	, , , , , , , , , , , , , , , , , , , ,	
British Literature II, ENGL 245 (MOTR LITR 102)	3		
French I, FREN 101 (MOTR LANG 101)	3		
	_	Condit Harris Tatal	
		Credit Hours Total)	
•		rs from courses listed above.	
Courses cannot be used as Core E	lect	tives if counted under another section.	

Latest Revision: 3/26/18