2021-2022



CLOUD COUNTY CATALOG



Degree & certificate requirements | Student information, services, & policies | Program & course descriptions



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CLOUD COUNTY COMMUNITY COLLEGE

CONCORDIA CAMPUS

2221 Campus Drive Concordia, Kansas 66901 785-243-1435 1-800-729-5101

GEARY COUNTY CAMPUS

631 Caroline Junction City, Kansas 66441 785-238-8010

WWW.CLOUD.EDU

CATALOG 2021-2022



Cloud County Community College is accredited by The Higher Learning Commission, 230 South LaSalle Street, Suite 7-500, Chicago, IL, 60604, 800-621-7440.

Cloud County Community College operates under the authority of the Kansas Board of Regents, 1000 SW Jackson St., Suite 520, Topeka, KS, 66612-1368, 785-296-3421.

Although every reasonable effort has been made to ensure the information contained in this publication is accurate, Cloud County Community College reserves the right to make changes without notice.

Per veterans requirements: The College certifies that content and policies outlined in the 2021-2022 catalog are true and correct to the best of our knowledge.

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Board of Trustees

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Caesar Wood	

Student Affairs

JD Koons......Dean for Student Affairs

Academic Divisions

Academic Calendar • 2021-2022

FALL SEMESTER, 2021

Aug 5 Outreach Faculty In-Service - Concordia

Aug 9 Convocation

Aug 9-13 Faculty Contract Days
Aug 12 Student Services Day - GCC

Adjunct Faculty Dinner & In-Service - GCC

Aug 14-15 Move-In Day - Concordia

Aug 16 New Student Orientation (am) - Concordia

Student Services Day (pm) -Concordia

New Student Orientation - GCC

Faculty Contract Day

Aug 17 Classes begin - All campuses (Full Session & First Session)

Sep 6 Labor Day - COLLEGE CLOSED - No classes
Oct 4-6 Mid-Term Exams - Full Session Classes

Oct 5-6 Final Exams - 1st Session

Oct 7-8 Fall Break for Students - NO CLASSES

Oct 7 In-Service - Faculty & Staff
Oct 8 Faculty Contract Day
Oct 11 2nd Session Begins

Nov 11 Veterans Day - COLLEGE CLOSED -No classes
Nov 24-26 Thanksgiving Break - COLLEGE CLOSED - No classes

Dec 6-9 Final Exams - Full & 2nd Session Classes

Dec 10 Faculty Contract Day

Dec 20-Jan 2 Winter Break - COLLEGE CLOSED - No Classes

INTERTERM, 2021-2022

Dec 10 Winter Term Begins
Jan 14 Winter Term Ends

SPRING SEMESTER, 2022

Jan 6 Adjunct Faculty Dinner & In-Service - GCC

Jan 10-14 Faculty Contract Days
Jan 13 Student Services Day - GCC

Jan 17Martin Luther King Jr. Day - COLLEGE CLOSEDJan 18New Student Orientation - Concordia (am)

Student Services Day (pm) - Concordia

New Student Orientation - GCC

Faculty Contract Day

Jan 19 Classes begin - All Locations (Full Session & First Session)

Feb 21 President's Day - COLLEGE CLOSED - No classes

Mar 7-11 Mid-Term Exams - Full Session
Mar 10-11 Final Exams - 1st Session

Mar 14-20 Spring Break - COLLEGE CLOSED - No classes

Mar 21 Second Session Begins

Apr 5 Good Friday - COLLEGE CLOSED - No classes May 9-12 Final Exams (Full & 2nd Session Classes)

May 13 Commencement - 7 p.m. at Concordia for all graduates

May 18 Faculty Contract Day

May 30 Memorial Day - COLLEGE CLOSED -

Academic Calendar • 2021-2022

SUMMER SESSION, 2022

(Classes held Monday-Thursday)

May 31	Summer School begins - (Full & 1st Session)
Jun 30	Last Day for 1st Session
Jul 4	Independence Day Observed- COLLEGE CLOSED - No classes
Jul 5	2nd Session Summer Begins
Aug 4	Last Day for Summer School - (Full & 2nd Session)

Cloud County Community College prepares students to lead successful lives and enhances the vitality of our communities.



LOCATIONS

The Concordia campus of Cloud County Community College is located in Concordia, a town with a population in excess of 5,000 in north central Kansas. Served by U.S. Highway 81, it is within easy driving distance of Salina, Manhattan, Junction City, Hays, Topeka, and Wichita. Highway 36, 24, 9 and Interstate 70 provide easy access to Concordia.

Concordia is a vibrant community with a rich history, featuring multiple historical attractions, and a thriving downtown, complete with a four-screen movie theatre, multiple restaurants, and the Broadway Plaza.

The Broadway Plaza is Concordia's premier outdoor public event space. Home to 100-150 events each year, the Plaza is the gateway to Concordia's downtown shopping, dining and entertainment district. With a giant LED screen to watch games and movies, a splash pad for kids, and a stage for concerts, the space entertains residents, neighbors and guests.

The famous Brown Grand Theatre, restored to its original 1907 splendor, features live entertainment, including plays and concerts. The Brown Grand Players and the Community Concert Association welcome student membership and participation. The stage is also home to at least one of the college's plays or musicals each year.

The Geary County Campus is located on a multi-building site in Junction City. The campus is easily accessed from Highways 77 and 18, or Interstate 70. It is a short drive from Manhattan, Abilene, Salina, and Herington. Located in the heart of the state, Junction City offers a small-town atmosphere with big-city amenities. It is also just minutes from Fort Riley, an active-duty Army post. The Geary County campus is presently non-residential, but there is ample housing conveniently located nearby.

HISTORY OF THE COLLEGE

The college was established as the Concordia Junior College in 1965 as part of the Concordia Public Schools. Classes first met on February 8, 1965, using the Concordia school's facilities.

On July 1, 1965, the Concordia Junior College became a member of the state system of community colleges under the name Cloud County Community Junior College. Classes began in the current location in the fall of 1968. The college is now known as Cloud County Community College.

The Concordia campus is made up of four buildings, grouped together on three levels, and connected by a central library. Additionally, Tech West houses the Nursing Department and the Child Care Center. There are 15 campus apartment buildings, as well as Thunder Heights, a 78-person, three-story building that offers private and semi-private rooms.

Situated on the hill south of campus, the Renewable Energy Park consists of two Northwind 100 wind turbines and a 208-kilowatt single-axis tracking solar farm. Combined, and at peak performance, the Renewable Energy Park can produce 408 kilowatts of electricity. The CloudPower Wind Farm was finished and commissioned in April 2010. Shortly thereafter, the college began

a major overhaul of the HVAC system in the main building, which included a switch from gas-fired boilers to a geothermal system. The geothermal well field consists of 99 wells, drilled to 400 feet deep, and arranged in three separate fields for redundancy. The SunPower Solar Farm was started in the summer of 2018 and commissioned in November. In combination, these features provide substantial energy savings for the college and make Cloud a unique example of combining wind, solar and geothermal energy sources.

The Renewable Energy Park provides the college with a significant reduction in carbon footprint. The geothermal HVAC system is completely powered by the Renewable Energy Park on an average day in Kansas, offsetting the college's costs in electricity and natural gas. When combined with the wind turbines and solar farm, the college will save 2,656 barrels of oil per year, or enough electricity to power 158 homes. In addition to the environmental benefits, the Renewable Energy Park also provides an on-site laboratory for students enrolled in the Renewable Energy programs. Students get the benefit of on-site equipment for lab training, as well as climb testing, rope rescue training, and routine maintenance work.

In Junction City, the Grandview Plaza attendance center was opened in 1994 to better meet the needs of the population of the southeastern portion of Cloud's service area. In January 1998, the college opened the present Geary County site. The campus is composed of four buildings and offers a full range of academic programs and student support services. The Geary County campus is an integral part of Cloud County Community College, and its campus is distinguished by its own architecture and campus plan.

MISSION STATEMENT

Cloud County Community College prepares students to lead successful lives and enhances the vitality of our communities.

Guiding Values

Success

Students are our central focus, and we strive to see every student succeed.

"We champion individual success"

Excellence

We deliver forward thinking programs of study as well as industry-best practices that reflect the highest academic standards.

"We are committed to excellence"

Service

We make a positive difference in the lives of our students, community members, and each other through meaningful relationships.

"We make a difference"

Integrity

We uphold the highest standards of ethics and public stewardship.

"We do what is right"

Diversity

We encourage active citizenship and embrace the diversity of people and ideas.

"We are better together"

Accessibility

We provide the best value for a high quality, holistic education. "We ensure every student has opportunities"

Sustainability

We promote renewable energy as well as sustainable lifestyles in our changing world.

"We are Black, Gold, and Green"

INSTITUTIONAL LEARNING OUTCOMES:

Critical Thinking:

- 1. Comprehend the implication of a topic or problem.
- 2. Locate and synthesize appropriate evidence.
- 3. Construct well-reasoned conclusion.

Diversity:

- 1. Examine diversity, both local and global, to develop an understanding of and appreciation for people and ideas.
- 2. Demonstrate understanding of personal responsibility as a member of diverse communities.

Ethics:

1. Practice professional standards within legal, ethical, and regulatory frameworks.

Employment:

- 1. Demonstrate knowledge of norms and expectations of professional and constructive manner.
- Demonstrate skills in working with others in a professional and constructive manner.

Sustainability:

 Students will understand the importance and implementation of sustainable practices that meet the needs of today without compromising the needs of the future.

Notice of Nondiscrimination

Cloud County Community College does not discriminate on the basis of race, religion, color, national origin, sex, age, disability, or ancestry in admission to, access to, treatment of, or employment in, its programs and activities. If you have questions, please contact the Section 504 coordinator at 2221 Campus Drive, Concordia, KS 66901 or at (785) 243-1435, ext 251 or 800-729-5101.

Accreditation

Cloud County Community College is accredited by the Higher Learning Commission, a commission of the North Central Association of Colleges and Schools, 230 South LaSalle Street, Suite 7-500 Chicago, Illinois, 60604, or (800) 621-7440.

STUDENT EDUCATIONAL RECORDS - RIGHTS OF PRIVACY (FERPA)

Cloud County Community College complies with the Family Education Rights and Privacy Act of 1974 (FERPA). FERPA is a Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. For more information see Policy E5 at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/E5%20Student%20Privacy%20Rights.pdf.

BOOKSTORE

Striving for superior customer service, the T-Bird Bookstore caters to all of your classroom and apparel needs. An inclusive access program is offered, titled T-Books. More information can be found at https://www.tbirdbookstore.com/inclusiveaccess.asp? They also offer classroom and laboratory supplies, and supplemental reading materials. For additional information go to https://www.tbirdbookstore.com/

Tuition and Fees

Tuition

Tuition and comprehensive fees are subject to change each academic year. Current tuition and comprehensive fees can be found at http://www.cloud.edu/Admissions/Cost/index.

Tuition and Fee Waiver for Dependents of Veterans and Safety Officers:

Tuition and Fees will be provided free of charge to the following (subject to provisions of K.S.A. 73-1216 and K.S.A. 75-4364)

- · Any dependent of a prisoner of war
- Any dependent of a person missing in action
- Any dependent of a person who has died as a result of service-connected disability suffered during the Vietnam Conflict
- Any dependent or spouse of certain military personnel who died on or after September 11, 2001, while, and as a result of, serving in active military service.
- Any dependent of a public safety officer who died as a result

- of injury sustained while performing the duties as a public safety officer.
- Tuition and Fees waiver will be applicable as long as the dependent is eligible, but not to exceed twelve (12) semesters of instruction.

Fees

Below is a listing of additional fees that may be charged that are not included in the comprehensive fees:

Accuplacer Testing Fee
Ag Program Fee
Ag Judging Lab Fee\$200
Audit FeeSame as Tuition
Calculator Rental\$140
First Aid & Safety Fee\$15
Degree Petition Fee\$30
*Internet Course Processing Fee\$25 per credit hour
**Lab Fee\$5 per credit hour
**Nursing Fees - Traditional Track (total for program) \$2600
LPN to ADN Track (total for program)\$1650
Nursing Program Fees\$25 per credit hour
Lab Fees\$60 per nursing course
Parking Permit\$10 Concordia Campus
Private Music Lesson\$80
Transcript Fee\$5
**Renewable Energy Lab Fee\$15 per credit hour
Renewable Energy Program Fee\$25 per credit hour

^{*}This fee is included in tuition amount

Note: Fees are reviewed annually, and are subject to change.

Refund Payment Policy

Refunds may be issued to students dropping from courses. See Policy F6 at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/F6%20Tuition%20and%20Fees%20procedures.pdf for the refund schedule.

^{**}fees may vary

For more information about services provided by Cloud County Community College, visit <u>www.cloud.edu</u> to access our website, or use the links provided below.

Admissions: http://www.cloud.edu/Admissions

International Student Information: http://www.cloud.edu/Admissions/international-students

Financial Aid: http://www.cloud.edu/Students/financialaid

Scholarships: http://www.cloud.edu/Admissions/Covering-the-Cost

Campus Housing: http://www.cloud.edu/Students/residence-life

Advising: http://www.cloud.edu/Academics/Advising

Enrollment Guide: http://www.cloud.edu/Assets/PDFs/online/iCloud%20Enrollment%20Guide.pdf

Online: http://www.cloud.edu/Academics/Online

T-Bird Bookstore: https://www.tbirdbookstore.com/default.asp?

TRiO: http://www.cloud.edu/Academics/TRiO

Student Activities: http://www.cloud.edu/Students/student-engagement

Career Center: http://www.cloud.edu/About/Career-Center

Children's Center: http://www.cloud.edu/About/Children-Center

Campus Security: http://www.cloud.edu/Students/Safety

Veteran Services: http://www.cloud.edu/Students/VeteranServices

Adult Education: http://www.cloud.edu/Academics/Adult-education-program

Academic Services

STUDENT SUCCESS CENTER

The mission of the Student Success Center is to provide assistance and services to support students at Cloud County Comunity College in achieving their academic goals.

Concordia Campus

The SSC offers a variety of services to support the success of all students at Cloud County Community College. We encourage you to stop by Room GR210 to meet our friendly staff and to see how we can help you succeed in your academic career at CCCC. Services provided by the center are:

Tutoring

Test Proctoring

Academic Coaching

Editing and Proofreading

Academic Support

Reference Materials

Computers

Study Management Resources

Tutor Training

Relaxed and Quiet Study Environment

Professional and Caring Staff

Distance Tutoring

The Student Success Center also offers online tutoring which is provided through a Zoom link. Students can request assistance between the hours of 9:00 am to 11:00 am and 1:00 pm to 3:00 pm. However, students are advised to make an appointment by calling 1-800-729-5101, ext 231 or by emailing ssc@cloud.edu to ensure assistance availability.

To connect to Zoom through Canvas, click on the Online Tutoring side tab on any class menu and then click on the link provided.

Geary County Campus

The Student Success Center on the Geary County Campus is located in Building A. The center offers a full-service computer lab available for all students to use and provides support with homework on all subjects. Test proctoring is also available by appointment.

For more information regarding the Student Success Center, see http://www.cloud.edu/Academics/Student%20Success%20Center.

LIBRARY

The Cloud County Community College Library supports and enhances the College's instructional programs by providing services and resources to the college community and the general public in order to promote information literacy, i.e., the ability to locate, evaluate, and use information.

For more information and to see what resources are available, go to http://www.cloud.edu/Academics/Library.

ACCOMMODATION FOR DISABILITY

Academic: If academic accommodation is needed for any type of disability, students should contact the Director of Advisement and Retention Services, located in the Advisement Center on the Concordia Campus. Students requiring auxiliary aids and services need to request accommodation six to eight weeks in advance of the start of the semester.

Other than Academic: If special arrangements are needed for accessibility, contact the Vice President for Administrative Services to request accommodation six to eight weeks in advance of the start of the semester.

Emergency Evacuation: Students desiring assistance during emergency evacuations will need to complete a registration form each semester in the Advisement Center on the Concordia Campus or the Student Services Office on the Geary Co. Campus.

ACADEMIC REGULATIONS

Certificates Offered

A Technical Certificate may be granted for programs of instruction that are less than 60 semester hours in length but more than 15 semester hours. Certificates place an emphasis on occupational experience and are designed to prepare students for specific occupations.

Degrees Offered

"Associate of Applied Science Degree" (A.A.S.) means a degree: granted to those who successfully complete programs which emphasize preparation for employment typically at the technical or semi-professional level; and consisting of a minimum of 62 semester credit hours and a maximum of 68 semester credit hours, in which not less than 15 semester credit hours in general education and not less than 30 semester credit hours in the area of specialized preparation are required. An exception/waiver to the 68 semester credit hour limit may be granted to meet specific criteria such as external program accreditations or other special requirements. Selected courses may transfer to a college or university upon validation of applicable coursework.

"Associate of General Studies" (A.G.S) means a degree: granted to those who successfully complete programs with an emphasis on a broad range of knowledge; and in which not less than 25 semester credit hours in general education and not less than 37 semester credit hours in a program of college-level work are required. Students can earn a General Studies Degree to be generally prepared for employment in the field.

"Associate of Arts Degree" (A.A.) means a transfer-oriented degree: granted to those who successfully complete programs equivalent to the freshman and sophomore level requirements for a bachelor of arts degree; and in which not less than 31 semester credit hours in general education are required.

"Associate of Science Degree" (A.S.) means a transfer- or professional-oriented degree: granted to those who successfully complete programs equivalent to the freshman and sophomore level requirements for a Bachelor of Science degree: and in which not less than 32 semester credit hours in general education are required.

Following are the general education requirements for each of the degrees. General education substitutions must be approved by the Vice-President for Academic Affairs. Program substitutions must be approved by the department chair. Electives should be selected in consultation with an academic advisor.

CLOUD COUNTY Community College

GENERAL EDUCATION REQUIREMENTS FOR CERTIFICATES AND DEGREES

CERTIFICATES:

16-Hour Certificates

3 credit hours General Education Courses (To be specified by the department)

30-Hour Certificates

6 credit hours General Education Courses (To be specified by the department)

45-Hour Certificates

9 credit hours General Education Courses (To be specified by department)

DEGREES:

Associate of Applied Science Degree

(This degree is considered a work-ready program and is not designed for transfer, however, courses may transfer to specific degree programs at selected colleges or universities.)

62 -68 credit hours including the following General Education minimum requirements:

Proven English Grammatical Proficiency or

3 credit hours Communication (Written)

3 credit hours Communications (Oral)

3 credit hours Mathematics General Education Courses, Intermedite Algebra, or Survey of Math

3 credit hours Humanities General Education Course

3 credit hours Social Sciences General Education Courses

3 credit hours Natural Science General Education Course

MINUMUM TOTAL 15 credit hours

Specialized and Related Competencies - Minimum of 47 credit hours from those listed below, to be determined by the department using the requirements of the occupation(s):

- Technical Knowledge
- Technical Skills
- Communication
- Science
- Mathematics
- Interpersonal Skills (employability skills)
- · Courses from other technical disciplines

Associate of General Studies Degree

62 credit hours, including the following General Education minimum requirements:

6 credit hours Communications General Education Courses

- 3 hours in Written Communications
- 3 hours in Oral Communications

3 credit hours Mathematics General Education Courses or Intermediate Algebra

3 credit hours Humanities General Education Courses

3 credit hours Social Sciences General Education Courses

3 credit hours Humanities or Social Sciences General Education Courses (Must be from second area)

4 credit hours Natural Science w/Lab General Education Course

• Either Biological *or* Physical Science Course

3 credit hours General Education Elective Course

MINUMUM TOTAL25 credit hours

The awarding of an Associate of General Studies requires a student to complete a minimum of 37 elective credit hours in addition to the 25 hours of General Education listed above.

The Associate of General Studies degree is not intended for transfer to a college or university. The student may elect to use occupational/technical coursework in part or in whole to fulfill the block of elective credit hours. **Students should be aware that occupational coursework may not be accepted in transfer to another college or university,** however, general education courses and others may transfer to specific degree programs at selected colleges or universities.

Associate of Arts

62 credit hours including the following General Education minimum requirements:

9 credit hours Communications General Education Courses

- 6 hours in Written Communications
- 3 hours in Oral Communications

3 credit hours Mathematics General Education Courses 6 credit hours Humanities General Education Courses

Fromtwo areas

6 credit hours Social Sciences General Education Courses

• From two areas

4 credit hours Natural Science General Education Course

• Either Biological *or* Physical Science w/Lab Course 3 credit hours General Education Elective Course

MINIMUM TOTAL 31 credit hours

Associate of Science

62 credit hours including the following General Education minimum requirements:

9 credit hours Communications General Education Courses

- 6 hours in Written Communications
- 3 hours in Oral Communications

3 credit hours Mathematics General Education Courses 6 credit hours Humanities General Education Courses

From two areas

6 credit hours Social Sciences General Education Courses

· From two areas

8 credit hours Natural Science General Education Courses

• Both Biological *and* Physical Science Lab Courses

MINIMUM TOTAL 32 credit hours



GENERAL EDUCATION

General Education Philosophy

General Education expands students' understanding of the world and prepares them for civic, social, and employment responsibilities. General education advances students' abilities to function in diverse and dynamic environments by enhancing communication, stimulating critical thinking, exploring modes of inquiry, developing creative work, fostering constructive attitudes regarding learning, and promoting academic literacy.

General Education Course List

The following courses are the approved courses that will fulfill the general education requirements for Cloud County Community College. These courses will fulfill the general education requirements for all degrees unless otherwise stated.

Communications General Education Courses	MA111 College Algebra3 credit hours
CM101 English Composition I	MA112 Trigonometry3 credit hours
CM102 English Composition II3 credit hours	MA114 Elementary Statistics3 credit hours
CM102 English Composition 11	MA115 Linear Algebra/General Calculus
CM115 Public Speaking	MA120 Analytical Geometry/Calculus I5 credit hours
CM120 Survey of Technical Writing (Certs, AAS, &	MA121 Analytical Geometry/Calculus II5 credit hours
AGS Degrees only)	MA130 Contemporary Math3 credit hours
CM240 Interpersonal Communications	22 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Civi240 Interpersonal Communications Securit nours	Natural Sciences General Education Courses
Humanities General Education Courses	Biological Science
Arts	SC101 General Biology4 credit hours
AR100 Art Appreciation3 credit hours	SC110 Principles of Biology I5 credit hours
	SC120 Human Anatomy & Physiology I4 credit hours
Foreign Language	SC126 Anatomy and Physiology5 credit hours
FL105 French I	SC151 Principles of Biology II5 credit hours
FL111 Spanish I	
FL113 German I4 credit hours	Physical Science
History	AG108 Environmental Quality
HI108 Women in American Society3 credit hours	SC103 Physical Science
HI120 World History I3 credit hours	SC104 Geology
HI121 World History II3 credit hours	SC104 Geology 4 credit hours SC105 General Astronomy 4 credit hours
HI122 U.S. History I	SC107 Meteorology
HI123 U.S. History II3 credit hours	SC130 General Chemistry
HI124 Introduction to History3 credit hours	SC131 Chemistry I
Humanities	SC137 Natural Hazards and Disasters
CM106 Creative Writing3 credit hours	SC138 Natural Hazards and Disasters Lab
HU201 Humanities I	SC140 College Physics I
HU202 Humanities II	SC142 University Physics I5 credit hours
JN100 Mass Media in Society	SC146 Environmental Science & Conservation3 credit hours
·	SC147 Environmental Science & Conservation Lab1 credit hour
Literature	
CM121 Introduction to Literature	Social & Behavioral Science General Education Courses
CM122 American Literature I3 credit hours	Anthropology
CM123 American Literature II3 credit hours	SS125 Introduction to Cultural Anthropology3 credit hours
CM124 World Literature & the Human Experience 3 credit hours	Economics
CM127 The Short Story3 credit hours	
Music	EC101 Principles of Macroeconomics
MU100 Music Appreciation3 credit hours	EC102 Filliciples of Wilcroeconomics
MU101 American Music3 credit hours	Geography
MU102 World Music3 credit hours	GE101 World Geography3 credit hours
MU103 History of Rock Music3 credit hours	Political Science
Philosophy	SS140 U.S. Government: National3 credit hours
PH100 Introduction to Philosophy3 credit hours	SS141 U.S. Government: State and Local
PH105 Christian Ethics in Our Contemporary	SS142 Current Political Issues
Society3 credit hours	SS150 Introduction to International Relations 3 credit hours
RE104 World Religions	
	Psychology
Theatre	SS101 General Psychology
CM140 Theatre Appreciation3 credit hours	SS105 Human Growth & Development3 credit hours
CM148 American Cinema Appreciation3 credit hours	Sociology
1.1	SS106 Marriage and Family3 credit hours
Mathematics General Education Courses	SS130 Introduction to Sociology3 credit hours
MA105 Survey of Math (Certs &	SS201 Social Problems3 credit hours
AAS Degrees only)3 credit hours	
MA110 Intermediate Algebra (Certs, AAS, &	
AGS Degrees Only)3 credit hours	

ATTENDANCE

Cloud County Community College regards punctual and consistent classroom attendance as integral to academic success and expects it of all students in all classes. Students are expected to attend all classes as scheduled regardless of delivery format. For online learners, regular, systematic weekly participation is expected according to the tenets established on the course syllabus. A copy of the Attendance policy and procedures may be obtained from the student's faculty, the Office of the Vice-President for Academic Affairs, or found in Policy D4 at http:// www.cloud.edu/About/Board-of-Trustees/policies/index. Each instructor's attendance requirements will be published in the course syllabus. Penalties for excessive absences, up to and including the reduction of the final grade, will be included in the course syllabus. The instructor or the Student Retention Specialist may notify students whose class performance has been jeopardized by excessive absences.

ACADEMIC INTEGRITY AND HONESTY

A standard of honor, fair play, trust, and honesty - fairly applied - is essential to a good learning environment. Students are expected to adhere to such standards in all areas of academic pursuit. Students who compromise the integrity of the classroom are subject to disciplinary action on the part of the College.

A copy of the Academic Integrity and Honesty policy and procedures may be obtained from the Office of the Vice-President for Academic Affairs, or Policy D17 at http://www.cloud.edu/About/Board-of-Trustees/policies

Course Transfer and Program Articulation

Cloud County Community College accepts prior college coursework in transfer from regionally accredited institutions of higher education. These courses are accepted either as direct equivalencies to CCCC courses, as substitutions for CCCC courses, or as general electives. The College participates in the Kansas Core Outcomes Group state-wide initiative, which aligns learning outcomes of college courses typically taught by Kansas colleges and universities. The courses reviewed through this process are accepted in transfer to and from any Kansas institution of higher education. See http://www.cloud.edu/Academics/transferability for additional information.

CCCC also develops program articulation agreements with various colleges and universities around the state, region, and nation. These articulations are designed for CCCC graduates to transfer their associate degree as completion of the first two years of a related baccalaureate degree program. The College has articulation agreements with other community colleges in the state designating specific CCCC courses that satisfy program requirements at the receiving community college. These articulation agreements can be found at http://www.cloud.edu/Academics/transferability

Additional transfer and program articulation can be found in Policy D23 at http://www.cloud.edu/About/Board-of-Trustees/policies.

CREDIT BY EXAMINATION

- 1. The student should enroll in the course they intend to "quizout" of. Approval for credit by examination must be obtained from both the Vice-President for Academic Affairs and the instructor prior to taking the exam. Forms are available in the Student Records Office. The exam must be taken within the first five business days of the semester.
- 2. If the examination is passed the student will be dropped from the course with no refund and a notation, "Credit by Exam", will appear on the transcript for this course with the grade earned. The student may then enroll in a sequential course with approval of the Vice-President for Academic Affairs and the instructor. Enrollment in the quiz-out and sequential course may not be done concurrently.
- If the examination is not passed the student will remain enrolled in the course.
- 4. An examination fee of \$15.00 will be charged for all attempted quiz-outs. Students will receive a grade for all courses successfully completed via the quiz-out method.
- High school students are not eligible to quiz-out of a college course.

CREDIT FOR PRIOR LEARNING: AP, CLEP, MILITARY CREDIT, MILITARY AND INDUSTRY TRAINING AND EXPERIENCE

Credit for Prior Learning (CPL) is the evaluation and assessment of an individual's learning obtained outside a formal academic setting. For more information, see Policy D6 at http://www.cloud.edu/About/Board-of-Trustees/policies.

STUDENT CLASSIFICATION

- Freshman: Any student having fewer than 30 semester hours credit.
- 2. Sophomore: Any student having 30 or more credit hours
- 3. Special students, include the following: (1) high school students taking college courses; (2) gifted students, as defined by K.S.A. 72-962(g); (3) students who earned more than 64 hours; and (4) those students not meeting specific requirements for admission.

ENROLLMENT AND WITHDRAWAL Enrollment

New students will meet with advisors during a New Student Enrollment Day to discuss academic goals and to enroll in courses. Returning students will schedule appointments to meet with their advisor to enroll in courses during designated enrollment periods. These dates are scheduled and published throughout the year. Early enrollment is encouraged due to a greater course selection and to provide time to complete the enrollment process. For assistance at the Concordia Campus, contact the Advisement Center 800.729.5101, ext 275 or advisement@cloud.edu. For the Geary County Campus, contact Student Services at 800.729.5101, ext 714 or gcadvisement@cloud.edu.

After students complete the personal information update within their iCloud account, if required, students will be ready to

enroll in courses. At the time of enrollment, official transcripts or placement scores must be on file. Refer to the Placement Test section for more details.

All students are required to have an established method of payment by the scheduled due dates assigned for each term enrolled to ensure FULL access to classes and to prevent being dropped from classes.

Students taking off-campus or online courses should enroll through iCloud or contact an advisor.

Prior to the first day of class, students are required to identify the prescribed textbook and all materials which will be required for each course. Books and access codes are often required for on-line courses. Visit the T-Bird bookstore at https://www.tbirdbookstore.com/ to view and purchase course materials during established timeframes. For many courses, the bookstore has launched an inclusive access program called T-Books. More information can be found at https://www.tbirdbookstore.com/ inclusive access.asp? . These books and materials can be obtained from the T-Bird Bookstore located on the Concordia Campus and at tbirdbookstore.com.

Additional information can be found at http://www.cloud.edu/ Assets/PDFs/about/Board-of-Trustees/D5%20Procedures.pdf.

Placement Test

Students who have not completed college-level math or English must provide ACT, SAT, Compass, or Accuplacer placement test scores prior to enrollment. Placement scores that are no more than three years old for Math and five years old for English are acceptable. Students without scores on file are given a placement test and will incur a test fee that will be due at the time of testing. There is a 1-month waiting period for retake tests. The same fee applies to retake tests.

Scores from the test will be used to determine the appropriate math, English or reading courses for the student. Depending on the scores, students may be required to take developmental courses. These courses will prepare the student for college courses, will appear on the official transcript, and be included in the career GPA. Developmental courses do not count toward the graduation requirements.

High school students in the CCCC service area, who are enrolling in concurrent courses through CCCC, are given the placement test during designated periods at the high schools. The test fee will be due prior to or at the time of testing. See the coordinator at your high school for more information.

Students enrolling in courses at CCCC may take the placement test at the Concordia or Geary County campuses throughout the year. Students wishing to schedule a time to test can call 800.729.5101, ext. 275 for the Concordia campus or 800.729.5101, ext. 714 for the Geary County Campus.

The Concordia and Geary County campuses are remote test sites. Students can also make arrangements to test at a test site closer to the student. Students studying at other institutions can call the Advisement Center at the Concordia campus or the Student Services Office at the Geary County Campus for information regarding testing details and fees.

Add Procedure

Students may add courses either through iCloud (student web portal) or by contacting their academic advisor at the GCC Student Services Office or the Advisement Center on the Concordia Campus. Guidelines for adding a class can be found in Policy D5 at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/D5%20Procedures.pdf.

Withdrawal

Students may withdraw from classes according to guidelines in Policy D5 at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/D5%20Procedures.pdf. A "W" (withdrawn) will appear on the transcript for these courses. Forms for this purpose are available from the Concordia Campus Advisement Center and the Geary County Campus Office of Student Services.

Before a withdrawal can be finalized the instructor must be informed.

Requests for withdrawals, including total withdrawals, outside these established timelines will be considered for extraordinary or unusual circumstances as determined by the Vice President for Academic Affairs.

GRADING SYSTEM

For each semester hour of graded work, students earn points, as follows:

A	. Excellent	. 4 grade points
В	. Good	. 3 grade points
C	. Average	. 2 grade points
D	. Poor	. 1 grade points
F	. Failing	. 0 grade points
	. Withdrawn	
P	. Pass	. 0 grade points
	. No Pass	
I	. Incomplete	. 0 grade points
	. Audit	
	. Work in Progress	
	. Academic Integrity Violation	
	. Administrative Withdrawal	

Grade Point Average (GPA):

Grade point average is a measure of scholastic performance calculated by dividing the number of grade points by the hours of work attempted, using the grade point scale above. Grades A, B, C, D, F and XF are computed in the Grade Point Average. The numerical value of each letter grade is multiplied by the credit hour value of the course. The resulting total of grade points is divided by the total number of these hours. Grades of W, P, NP, I, AU and WA are not computed in the GPA.

Honor Roll

The President's Honor Roll recognizes students who have earned a semester grade point average of 3.9 - 4.0. The Honor Roll includes students who have earned a semester grade point average of 3.6 to 3.899. In order to be eligible for these honor rolls, a student must complete a minimum of 12 hours in any given semester. These lists are published after the fall and spring semesters.

Honor Graduate

A student meeting all graduation requirements for Cloud County Community College and who has a 3.6 GPA or higher for **all college** credit hours completed (Cloud County Community College credits and all transfer hours) may be designated an Honor Graduate.

For commencement ceremony purposes in the spring, tentative Honor Graduates will be recognized based upon the cumulative GPA at the end of the fall semester. However, the official designation will take place after the final GPA is determined based upon the criteria stated above and the degree has been conferred. At that point, the designation of "Honor Graduate" will be noted on the student's transcript.

ACADEMIC PROBATION & SUSPENSION SANCTIONS

For students at Cloud County Community College, academic probation and academic suspension are not punitive measures or disciplinary actions. The purpose of this policy is to provide opportunities for students to succeed.

The clear intent of these sanctions is:

- To identify students whose academic efforts have not been successful:
- To provide these students the opportunity for guidance in developing strategic plans to succeed at college level learning; and
- To link these students with staff and faculty who can offer support and encouragement to follow their plans through to success.

Satisfactory Academic Progress

To graduate, students must earn a minimum cumulative GPA of 2.0. To reach this required minimum, students must maintain certain GPA minimums as compared to completed credit hours (see chart below).

Earned credit hour minimum for satisfactory academic progress: Students will pass 50% (grades A, B, C, D, or P) of stated credit hours in any given semester.

Academic Probation

Students who have attempted eleven or more cumulative credit hours at Cloud County Community College shall be placed on academic probation when the cumulative grade point average or semester grade point average is less than that needed to achieve satisfactory academic progress, or a student passes less than 50% of courses for which they are enrolled.

Satisfactory Academic Progress Chart

Total Attempted	<u>Minimum</u>	<u>Minimum</u>
Credit Hours	Career GPA	Semester GPA
1-10 credit hours	N/A	N/A
11-20 credit hours	1.60	1.70
21-30 credit hours	1.70	1.70
31-40 credit hours	1.80	1.70
41-50 credit hours	1.90	1.70
51-94 credit hours	2.00	1.70

When a student transfers in from another college or university, after the transfer transcript is evaluated, satisfactory academic progress will be reviewed according to CCCC requirements and, if applicable, academic probation will be noted on the CCCC transcript by the Registrar or their designee.

At the close of each semester, the academic performance of students on academic probation will be re-evaluated in terms of satisfactory academic progress.

If the student's semester and cumulative GPA meet the requirements for satisfactory academic progress and the student has completed at least 50% of the courses for which they are enrolled, the student no longer will be considered on academic probation.

Academic Suspension

If the student does not meet satisfactory academic progress requirements, the student will be placed on academic suspension after review by the Academic Probation and Suspension Committee.

The terms of academic suspension shall be as follows:

- A student on academic suspension will not be eligible to register for the next regular fall or spring semester.
- 2. After one semester of academic suspension, the student may enroll on continuing academic probation status.

Reinstatement

A student who has been suspended for academic reasons may file a petition for reinstatement with the Academic Probation and Suspension Committee. The Academic Probation and Suspension Committee will consider each petition individually and may request the student to appear before the committee. If reinstated, the probationary status will continue.

For more information regarding Probation/Suspension see Policy D14 at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/D14%20Academic%20Probation%20and%20Suspension.pdf

FINAL EXAMINATIONS

Final Examinations shall be given during the time allotted on the academic calendar for such examinations. Instructors will determine the activities conducted during the exam period.

Face to Face courses must meet during the scheduled exam

period and students must be present in order to participate in final activities with limited exceptions.

When a student has three or more final examinations scheduled for one day, that student may petition the instructor(s) prior to final's week for an exception to reschedule the middle examination(s), leaving two examinations for a testing day. Any difficulties arising from this process should be referred to the Vice President for Academic Affairs.

Other exceptions may be considered only in the event of a true emergency. Instructors will have discretion in approval of exigent circumstance and emergency exam rescheduling. Instructors may require a time limit deadline for exam change requests.

Instructors may opt to excuse students from the final exams based on class standing.

Any deviation from these policies shall be cleared with the Vice President for Academic Affairs.

GRADUATION

In order to graduate, students are expected to complete the graduation requirements listed in the catalog that was in effect at the time they first enrolled. However, if graduation requirements change while the student is pursuing a degree, the student will have the choice of continuing with the old requirements, where those courses are available, or accepting the new requirements in order to graduate. If a student sits out two consecutive semesters, the student will be readmitted under the graduation requirement in the current catalog.

Graduation requirements are as follows:

- · Completion of the general education requirements.
- Completion of a minimum of 62 credit hours and an overall grade point average of at least 2.0. Courses must be 100 level or above.
- Technical courses typically will not count toward AA or
 AS degree requirements. Technical courses are those created to satisfy specific program outcomes for the Associate
 of Applied Science programs and certificates and Allied
 Health courses. They include courses with prefixes of AH,
 IE, MS, NR, SE, UA,TD, WE as well as CDL and AgriBiotechnology courses.
- For the Associate of Applied Science Degree, completion of the departmentally approved program.
- Students completing requirements during the fall semester will be part of the May ceremony. Those students must submit a petition by December 1. Students completing requirements during the spring or summer semester must submit a petition by March 1 to participate in the commencement ceremony.
- No more than 12 hours of PE activity course credits can be used towards any of Cloud's associate degrees.
- A student must earn 15 hours of credit as a Cloud County Community College student for completion of

- the Associate's Degree being sought. For a Technical Certificate, students must earn 8 of 30 hours of credit or 4 of 16 hours of credit as a CCCC student. These courses must be 100 level or above.
- A high school student who petitions to graduate with an AA/AS/AGS/AAS must present a high school transcript demonstrating completion of high school graduation requirements.

Cloud County Community College holds one commencement ceremony, which takes place in May. It is the responsibility of the student to meet all requirements for graduation, and to check with the Student Records Office well in advance so there are no deficiencies.

ACADEMIC DUE PROCESS

In order to provide the highest level of service to the student, CCCC adopts the following procedure for addressing any complaint or dispute related to academic matters. Students who wish to appeal any academic dispute arising from an academic endeavor must follow this procedure. Failure to comply with these procedures shall be grounds for dismissal of any complaint or dispute and dismissal of the complaint shall be final. The complete Academic Due Process policy and procedure may be obtained from the Office of the Vice-President for Academic Affairs or at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/D19%20Academic%20Due%20Process.pdf. After obtaining a copy of the policy from the Academic Affairs Office, students who wish to appeal any academic dispute arising from an academic endeavor must start the process by:

Step 1: The student shall, within 10 business days following the academic dispute (i.e. issuance of the grade, charge of academic dishonesty, questioning classroom policy, procedures, assignments, or any related areas) provide written notification of any objection or complaint to the instructor and personally confer with the instructor (face-to-face or through web conferencing) to discuss resolution of the matter. Both student and instructor shall make a good faith effort in settling any dispute at this level. The instructor shall, within five (5) business days following the conference with the student, provide the student in writing the decision regarding the academic dispute.

Step 2: If the student is not satisfied with the results of the conference, the student must submit the Academic Due Process Complaint Form (found at the end of the procedures at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/D19%20 Academic%20Due%20Process.pdf) to the appropriate Division Dean, their designate, within five (5) business days following completion of Step 1. The Division Deans will document evidence and log the complaint according to institutional practice.

The Division Dean, or their designate, may request a meeting with the student (face-to-face or through web conferencing) for the purposes of seeking a resolution to the dispute. All parties must make a good faith effort at resolution, and no complaint or dispute may proceed to the next step unless such attempt at resolution is made.

The Division Dean, or their designate, shall evaluate the complaint or dispute to ensure that it meets the standards set forth in this policy and prepare a formal letter with his or her decision within five (5) business days, addressed to the student and to the faculty member identifying the resolution of the complaint.

If the student is not satisfied with the resolution presented by the Division Dean, the student will initiate Step 3.

Step 3: The student shall supply a copy of the Academic Due Process Complaint Form, along with all attachments or supporting material, to the Vice-President for Academic Affairs or their designate, within five (5) working days of the completion of Step 2.

The student shall make themselves available to the Vice-President for Academic Affairs, or their designate, for informal discussions on the topic of resolution of the complaint or dispute.

Should the Vice-President for Academic Affairs, or their designate, deem it appropriate, a formal hearing on the complaint or dispute may be set within five (5) business days. Such hearing shall be held before an ad hoc committee composed of the Division Dean, two faculty members from the Division, the Vice-President for Academic Affairs, and one faculty member from another division, and one faculty/staff member representative on behalf of the student. The members of the committee shall be appointed by the Vice-President for Academic Affairs. Said committee shall serve in an advisory role only, and shall report directly to the Vice-President for Academic Affairs, or their designate.

The Vice-President for Academic Affairs retains the discretionary authority to take action on the complaint or dispute based on the written reports submitted.

Step 4: Should the matter not be resolved, the student must submit a copy of the complaint or dispute, along with all attachments or supporting material, to the Office of the President within five (5) business days of completion of Step 3. The student must also submit a written notice of appeal from the decision of the Vice-President for Academic Affairs, and such notice must contain a concise statement of all issues remaining in dispute. The President retains discretionary authority to take action on the complaint or dispute based on the written reports submitted. The President may also take other action as deemed necessary.

Step 5: Use of the complaint procedure is not a prerequisite to the pursuit of other remedies. In addition to utilizing the college's complaint process, the following outlets exist for seeking redress of grievances:

- Complaints regarding State Authorization Reciprocity Agreement (SARA) courses delivered by SARA member community colleges may be filed by students enrolled in these courses with the Kansas Board of Regents office.
- Kansas Community Colleges are regionally accredited by the Higher Learning Commission on Colleges and Universities (HLC). Complaints regarding an institution's ongoing ability to meet the Criteria of Accreditation may be filed by following the guidelines at https://www.hlcommission.org/HLC-Institutions/complaints.html.

ASSESSMENT OF STUDENT LEARNING

Assessment of student learning is a critical part of the education process at CCCC. Ongoing assessment of student learning is a means for the College to measure its success in meeting the mission and for continued enhancement of both academic programs and student services. Contributions by students constitute a critical source of assessment data. Throughout their educational career at CCCC, all students will be expected to contribute to the assessment program by completing surveys, standardized tests, submitting academic work products, working with academic advisors, and completing exit interviews as required by specific programs. CCCC believes assessment of student learning leads to decisions which affect the entire college thus CCCC faculty, staff and administration are committed to an ongoing assessment program to continually improve teaching and learning.

LEAVE OF ABSENCE

Cloud County Community College is committed to student success and provides services to help students who need an extended leave of absence due to personal tragedy, family illness, death in the family, or other sudden personal issue.

If a student needs an extended leave of absence due to one of the above circumstances, please notify the Director of Advisement and Retention Services located in the Advisement Center. A form must be completed and signed prior to leaving campus by both the student and their instructors providing an understanding of the estimated time a student will be gone from campus, when the student expects to return to campus, and the course expectations during the leave of absence. The Leave of Absence form does not serve as a contract, but rather a tool for communication between the student and their instructors. In emergency situations when the student is not able to contact the Advisement Center, a family member or friend should notify the Advisement Center for the student. The Director of Advisement and Retention Services will then notify the student's instructors and the Vice President for Academic Affairs.



COURSE TRANSFER

COURSE TRANSFER

The Kansas Board of Regents has now approved a list of courses for guaranteed transfer among all Kansas public postsecondary institutions. A student who completes these courses at any Kansas public community college, technical college, or university can be certain that he or she can transfer that course to any other public institution in Kansas in pursuit of a degree or credential.

A list of the courses approved for the statewide guaranteed transfer may be found at https://www.kansasregents.org/aca-demic affairs/transfer-articulation. Additional courses are added annually.

REVERSE < TRANSFER

REVERSE TRANSFER

Students who transfer to a Kansas public university from a Kansas public community college or technical college (or vice versa) are eligible for Reverse Transfer, which allows for the attainment of any associate degree for which one is eligible along the way to additional certificates and degrees. Within a student's first semester, those who transfer coursework from a public university, community college or technical college will be notified if they are eligible to be considered for reverse transfer degree status and which courses are needed to finish the related degree. Students who then complete the coursework for a given associate degree will be eligible to receive that degree, administered automatically by correspondence between the new institution and the university, community college or technical college the student last attended.

Visit https://www.kansasregents.org/students/reverse-trans-fer-2 for more information.



KSDegreeStats.org

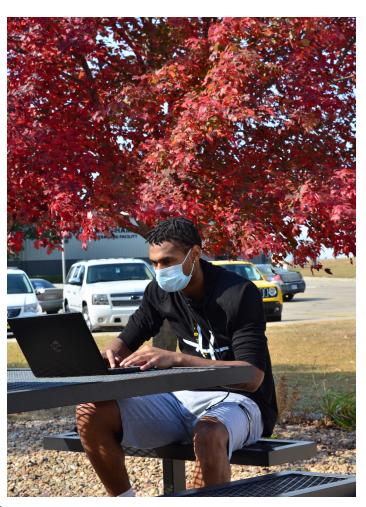
There are many factors to consider when picking the college and the degree that are the best match for you. Explore: ksdegreestats.org to learn more about the specific costs of each undergraduate degree program offered in Kansas, and the earnings those graduates are making today.

Course Transfer and Program Articulation

Cloud County Community College accepts prior college coursework in transfer from regionally accredited institutions of higher education. These courses are accepted either as direct equivalencies to CCCC courses, as substitutions for CCCC courses, or as general electives. The College participates in the Kansas Core Outcomes Group state-wide initiative, which aligns learning outcomes of college courses typically taught by Kansas colleges and universities. The courses reviewed through this process are accepted in transfer to and from any Kansas institution of higher education. See http://www.cloud.edu/Academics/transferability for additional information.

CCCC also develops program articulation agreements with various colleges and universities around the state, region, and nation. These articulations are designed for CCCC graduates to transfer their associate degree as completion of the first two years of a related baccalaureate degree program. The College has articulation agreements with other community colleges in the state designating specific CCCC courses that satisfy program requirements at the receiving community college. These articulation agreements can be found at http://www.cloud.edu/Academics/transferability

Additional transfer and program articulation can be found in Policy D23 at http://www.cloud.edu/Assets/PDFs/about/Board-of-Trustees/D23%20Course%20Transfer%20and%20Program%20 Articulation%20procedures.pdf.



CAREER PROGRAMS

Associate of Applied Science Degrees

The career program is for students who want to enter the workforce in a specific career after obtaining an associate degree. An Associate of Applied Science degree is awarded after completion of a minimum of 62 hours in a departmentally approved program, and 124 grade points. Of the hours required, a minimum of 15 hours must be General Education courses. Certificates are also available in many of the career programs. For information about courses in the career programs offered online visit http://www.cloud.edu/Academics/Online/index.

Agricultural Production & Services Early Childhood Education (Certificate) Emergency Medical Technician (Certificate) Technical Studies

Nursing & Allied Health Solar Energy

Unmanned Aircraft Systems Wind Energy Technology

GENERALIZED PROFESSIONAL

Associate of General Studies Degrees

The general studies program is designed for students who want to enter the workforce after obtaining an associate degree. This degree allows student flexibility in selected courses applicable to their desired field of study. Both transfer courses and technical courses accumulate toward the 62 hours needed for completion. Of the hours required, a minimum of 24 hours must be General Education courses. After degree completion, students could seek employment or decide to apply coursework toward a transfer program. For information about courses in the program offered online visit http://www.cloud.edu/Academics/Online .

Agriculture Education Interdisciplinary Studies Renewable Energy

Health and Human Performance Mathematics and Engineering Science

Communications Humanities and Fine Arts Nursing & Allied Health Social Science

TRANSFER PROGRAM

Associate of Arts and Associate of Science Degrees

The transfer program is designed for students planning to enter professions requiring a bachelor's degree. During their time at Cloud, students work toward completing the Associate of Arts or the Associate of Science degree. These 62 credit hour degrees contain required General Education courses as well as electives which, with the aid of an Academic Advisor, may be selected to fulfill freshman and sophomore level course needs in the student's desired major at a four-year college or university. Transfer materials for regional colleges and universities are available in the Advisement Center to assist students and advisors with course selection. Additional transfer information is available on the website http://www.cloud.edu/Academics/transferability. For information about courses in the transfer program offered online visit http://www.cloud.edu/Academics/Online.

Agriculture Ag Communications Ag Economics Agronomy **Animal Science** Equine Pre-Veterinary Medicine Business General Business Communications English Journalism/ Mass Communications Speech/Theatre Education Elementary Physical Education

K-12 Secondary

Athletic Training Coaching Kinesiology/Exercise Science Sport Management Dietetics Humanities & Fine Arts Art Music History Interdisciplinary Studies Mathematics & Engineering Architecture Engineering Engineering Technology

Mathematics

Health & Human Performance

Pre-Radiological Tech Pre-Respiratory Therapy Renewable Energy Renewable Energy Technology Science **Biology** Chemistry Earth Science Physics Pre-Chiropractic Pre-Dental Hygiene Pre-Dentistry Pre-Medicine Pre-Occupational Therapy

Nursing & Allied Health

Pre-Nursing BSN

Pre-Pharmacv Pre-Physical Therapy Pre-Physician Assistant Social Science Anthropology Criminal Justice Political Science/Pre-Law Family Studies & Human Services Family & Consumer Science Sociology/Social Work/ Counseling

Focus Areas:

Agribusiness, Agronomy, Livestock Production, Communications, Equine Science, Ag Engineering, Pre-Veterinarian, Precision Agriculture, Horticulture

AGRICULTURE

Department Chair: Jamieson Gross *jgross@cloud.edu* •• 243.1435, ext. 273

Employment:

Entry level positions at minimum wage with a certificate. \$30,000-\$60,000 with an associate's degree.



Potential Careers:

- Agronomist
- Ag & Food Science Technician
- Ranch Manager
- Agriculture Teacher/Professor
- Communications Specialist

Program Learning Outcomes:

- Analyze the impact of population growth and the environment.
- 2a. Describe problems with legal and ethical issues in agriculture.
- 2b. Assess tchnology uses in agriculture.
- 3a. Discuss global market issues.
- 3b. Demonstrate capability in agricultural claculations.
- 4. Identify and describe agricultrual production inputs.
- 5. Identify and describe effective agriculture advertising and their effects on the market.

Degrees & Certificates

Production & Services16-hour certificate	Precision Agriculture A.A.S 62 hours
Precision Agriculture30-hour certificate	Production & Services A.A.S 62 hours
Production & Services30-hour certificate	Associate of General Studies A.G.S 62 hours
Production & Services45-hour certificate	Associate of Science A.S 62 hours

Ag Education majors, refer to the Education Program

AGRICULTURE PRODUCTION & SERVICES

16-Hour Certificate

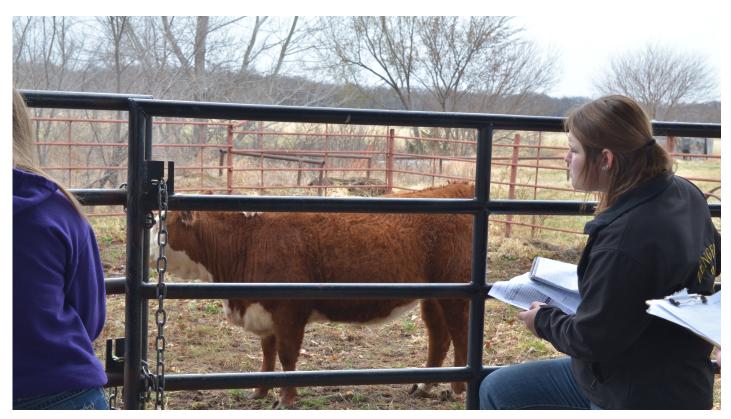
6 cr

Required General Education Courses		3 cr
Mathematics Requirement MA110 Intermediate Algebra (3 cr) or	3	
MA105 Survey of Math (3 cr) or		
Mathematics General Education Course		
Required Agriculture Courses		7 cr
AG101 Crop Science (4 cr) or	4	
AG150 Introduction to Horticulture (4 cr)		
AG115 Animal Science (3cr) or	3	
AG130 Principles of Ag Economics (3 cr)		

AG166	Fundamentals of Livestock Nutrition	3
AG210	Ag Advertising & Design	3
AG220	Cooperative Ed Internship	1-4







AGRICULTURE PRODUCTION & SERVICES

30-Hour Certificate

Required General Education Courses			6 C
Mathematics Requirement		3	
MA110 Intermediate Algebra (3 cr) or			
MA105 Survey of Math (3 cr) or			
Mathematics General Education Course			
Natural Science Requirement (1 area required) Physical Science General Education Biological Science General Education		3	
Required Agriculture Courses			10 c
AG101 Crop Science (4 cr) or	4		
AG150 Introduction to Horticulture (4 cr)			
AG115 Animal Science (3cr)	3		

Required Agriculture Courses		10 c
AG101 Crop Science (4 cr) or	4	
AG150 Introduction to Horticulture (4 cr)		
AG115 Animal Science (3cr)	3	
AG130 Principles of Agricultural Economics (3 cr)	3	

Electiv	ve Courses		14 cr
]	Economics		
AG132	Ag Management	3	
AG134	Ag Marketing	3	
AG155	Comparative Ag	1	
AG210	Ag Advertising and Design	3	
AG220	Cooperative Ed Internship	1-6	
1	Agronomy		
AG101	Crop Science	4	
AG102	Intro to Plant Pest Control	3	
AG103	Plants & Soils for Crop Production	3	
AG104	Soils	4	
AG105	Range Management	3	
AG106	Soil Classification and Evaluation	1	
AG107	Agronomy ID & Experimentation	1	
AG150	Introduction to Horticulture	4	
AG155	Comparative Ag	1	
AG160	Intro to Biotechnology	3	
AG220	Cooperative Ed Internship	1-6	
1	Animal Science		
AG111	Animal Management	3	
AG118	Principles of Livestock Selection	2	
AG119	Principles of Livestock Selection II	1	
AG128	Animal Health & Nutrition	3	
AG139	Farm Animal Reproduction	3	
AG155	Comparative Ag	1	
AG159	Equine Evaluation	1	
AG160	87	3	
AG166		3	
AG220	Cooperative Ed Internship	1-6	

	Equine Science	
AG111	Animal Management	3
AG122	Introduction to Horsemanship	2
AG128	Animal Health & Nutrition	3
AG139	Farm Animal Reproduction	3
AG155	Comparative Ag	1
AG159	Equine Evaluation	1
AG160	Intro to Biotechnology	3
AG165	Equine Evaluation II	1
AG166	Fundamentals of Livestock Nutrition	3
AG220	Cooperative Ed Internship	1-6



PRECISION AGRICULTURE

30-Hour Certificate

5 cr

Required General Education Courses		60
Mathematics Requirement	3	
MA110 Intermediate Algebra (3 cr) or		
MA105 Survey of Math (3 cr) or		
Mathematics General Education Course		
Natural Science Requirement (1 area required) Physical Science General Education Biological Science General Education	3	

Requir	ed Precision Agriculture Courses		19 cr
AG101	Crop Science	4	
AG102	Introduction to Plant Pest Control	3	
AG103	Plant & Soils for Crop Production	3	
AG132	Agriculture Management	3	
AG255	Precision Ag Hardware	3	
AG256	Precision Ag Software	3	

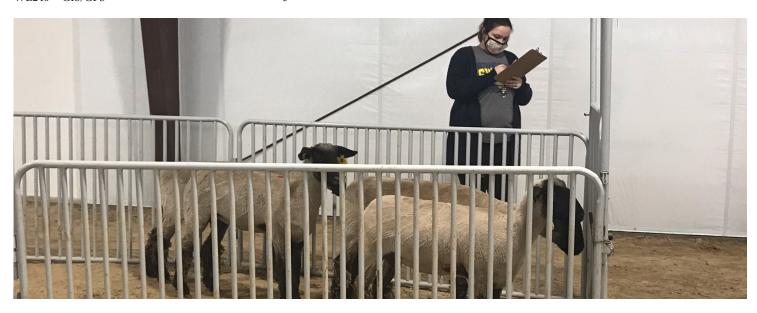
Electiv	e Courses * (CCCC)	
AG104	Soils	4
AG105	Range Management	3
AG106	Soil Classification and Evaluation	1
AG107	Agronomy Id & Experimentation	1
AG112	Agronomy Id & Experimentation II	1
AG115	Animal Science	3
AG134	Agriculture Marketing	3
AG160	Introduction to Biotechnology	3
AG164	Advanced Soil Classification & Evaluation	1
AG210	Ag Advertising & Design	3
AG217	Farm Computer Applications	3
UA100	Introduction to sUAS	3
UA201	sUAS Command, Control, & Comm	3
UA210	sUAS Systems & Conceptual Design	3
WE110	Electrical Theory	3
WE240	GIS/GPS	3

Courses CCCC will accept as Electives from Highland CC*

	•
AB126	Principles of Agronomy
AB128	Agriculture Electronic Devices & System
AB130	Precision Farming Systems
AB136	Intro to Agricultural GIS
AB138	Remote Sensing
AB142	Field Mapping for Decision Making
AB144	Intermediate Agricultureal GIS
AB244	Precision Agriculture Capstone

^{*}All electives should be selected with assistance from an advisor. Substitutions must be approved by department chair.





AGRICULTURE PRODUCTION & SERVICES

45-Hour Certificate

Requir	red General Education Courses		10 cr		Equine Science	
	unication Requirement		3	AG111	Animal Management	3
	115 Public Speaking (3 cr) or			AG122	Intro to Horsemanship	2
	Interpersonal Communications (3 cr)			AG128	Animal Health & Nutrition	3
	-		2	AG139	Farm Animal Reproduction	3
Matnen	natics Requirement		3	AG159	Equine Evaluation	1
	110 Intermediate Algebra (3 cr) or			AG165	Equine Evaluation II	1
	A105 Survey of Math (3 cr) or athematics General Education Course					
1016	differnatics General Education Course				Commercial Gardening	
Natur	al Science Requirement (1 area requirea	l)	4	AG102	Intro to Plant Pest Control	3
	sical Science General Education			AG103	Plants & Soils for Crop Production	3
Biolo	ogical Science General Education			AG104	Soils	4
				AG105	Range Management	3
Requir	ed Agriculture Courses		10-13 cr	AG106 AG107	Soil Classification and Evaluation Agronomy ID & Experimentation	1 1
AG127	Ag Science (4 cr)			AG107 AG160	Intro to Biotechnology	3
	or			AG100 AG240	The Horticulture Industry	3
	Crop Science (4 cr) or AG150 Introduction	ı to		AG240 AG241	Commercial Productions of Fruits &	3
	ticulture (4 cr) and			710211	Vegetables	3
AG1	15 Animal Science (3cr)	4-7			regetables	J
AG130	Principles of Agriculture Economics	3				
AG130	Agriculture Management or	3				
110132	AG134 Agriculture Marketing	3			General Electives	
	8			AG155	Comparative Ag	1
Electiv	ve Courses		22 -25 cr	AG220	Cooperative Ed Internship	1-6
	Business/Economics			AG299	CDL: Maps, Log Books, and	1
AG130	Principles of Agriculture Economics	3		AG300	DOT Regulations CDL: Commercial Driver's License	1 1
AG132	Ag Management	3		AG300 AG301	Truck & Tractor Trailer Vehicle	1
AG134	Ag Marketing	3		710301	Inspection & Maintenance	1
AG210	Ag Advertising and Design	3		AG302	In City Commercial Driver's License	-
AG212	Agricultural Law	2			Driving	1
BE161	Accounting I	3			o .	
BE162	Accounting II	3				
BE188	Principles of Advertising	3				
	Agronomy					
AG102	Intro to Plant Pest Control	3				
AG103	Plants & Soils for Crop Production	3				
AG104	Soils	4				
AG105	Range Management	3				
AG106	Soil Classification and Evaluation	1				
AG107	Agronomy ID & Experimentation	1				
AG160	Intro to Biotechnology	3				
	Animal Saianaa					
	Animal Science Animal Management	3				
AG111 AG118	Principles of Livestock Selection	2				
AG118 AG119	Principles of Livestock Selection II	1				
AG119 AG128	Animal Health & Nutrition	3				
AG139	Farm Animal Reproduction	3				
AG159	Equine Evaluation	1				
AG166	Fundamentals of Livestock Nutrition	3				

PRECISION AGRICULTURE

Associate of Applied Science - 62 Hours

Required General Ed	ucation Courses	1	6-19 cr
CM115 Public Speakir	osition I (3 cr) or Technical Writing (3 cr)	3-(5
Humanities Requirement Art Music Theatre Foreign Language	at (1 area required) Humanities Literature Philosophy History		3
Mathematics Requireme MA110 Intermediate A MA105 Survey of Ma Mathematics General	lgebra (3 cr) or ath (3 cr) or		3
Natural Science Require Biological Science Gen Physical Science Gener	eral Education		4
Social/Behavioral Science (1 area required) Economics Psychology	ce Requirement Anthropology Political Science		3
Sociology	Geography		19 cr
Required Precision A AG101 Crop Science	griculture Courses	4	1901

Requir	red Precision Agriculture Courses	19 c	r
AG101	Crop Science	4	
AG102	Introduction to Plant Pest Control	3	
AG132	Agriculture Management	3	
AG255	Precision Ag Hardware	3	
AG256	Precision Ag Software	3	
AG257	Precision Ag Machine Date Management	3	
Electiv	ve Courses (CCCC)	24-27 c	r
AG103	Plant & Soils for Crop Production	3	
AG104	Soils	4	

AG105	Range Management	3	
AG106	Soil Classification and Evaluation	1	
AG107	Agronomy Id & Experimentation	1	
AG112	Agronomy Id & Experimentation II	1	
AG115	Animal Science	3	
AG134	Agriculture Marketing	3	
AG160	Introduction to Biotechnology	3	
AG164	Advanced Soil Classification & Evaluation	1	
AG210	Ag Advertising & Design	3	
AG217	Farm Computer Applications	3	
UA100	Introduction to sUAS	3	
UA201	sUAS Command, Control, & Comm	3	
UA210	sUAS Systems & Conceptual Design	3	
WE110	Electrical Theory	3	
WE240	GIS/GPS	3	

Courses CCCC will accept as Electives from Highland CC*

AB126	Principles of Agronomy
AB128	Agriculture Electronic Devices & Systems
AB130	Precision Farming Systems
AB136	Intro to Agricultural GIS
AB138	Remote Sensing
AB142	Field Mapping for Decision Making
AB144	Intermediate Agricultureal GIS
AB244	Precision Agriculture Capstone





AGRICULTURE PRODUCTION & SERVICES

Associate of Applied Science - 62 Hours

Required General Education Courses	16-19 cr	AG107	Agronomy Identificataion & Experimen	itation
Communication Requirement	3-6	AG108	Environmental Quality	;
CM101 English Composition I (3 cr) or		AG109	Environmental Quality Lab	
CM120 Survey of Technical Writing (3 cr)		AG112	Agronomy Identification & Experiment	ation
CM115 Public Speaking (3 cr) or		AG155	Comparative Agriculture	
CM240 Interpersonal Communications (3 cr)		AG160	Introduction to Biotechnology	3
Humanities Requirement (1 area required)	3	AG164	Advanced Soil Classification & Evaluation	on 1
Art Humanities	3	AG170	Wildlife Management	3
Music Literature		AG220	Coop Ed Internship	1-6
Theatre Philosophy		AG300	Commercial Driver's License	1
Foreign Language History		BE152	Salesmanship	3
	2	WE240	GIS/GPS	3
Mathematics Requirement	3			
MA110 Intermediate Algebra (3 cr) or			Animal Science	
MA105 Survey of Math (3 cr) or		AG111	Animal Management	3
Mathematics General Education Course		AG116	Principles of Feeding	3
Natural Science Requirement	4	AG118	Principles of Livestock Selection I	1
Science Gen Ed with Lab		AG119	Principles of Livestock Selection II	2
0:1/01:10:0		AG128	Animal Health and Nutrition	3
Social/Behavioral Science Requirement	3	AG139	Farm Animal Reproduction	4
(1 area required)		AG155	Comparative Agriculture	1
Economics Anthropology		AG156	Equine Care	2
Psychology Political Science		AG159	Equine Evaluation	1
Sociology Geography		AG160	Introduction to Biotechnology	3
Required Agriculture Courses	19 cr	AG166	Fundamentals of Livestock Nutrition	3
AG101 Crop Science (4 cr) or	17 (1	AG220	Coop Ed Internship	1-3
AG150 Introduction to Horticulture (4 cr)	4	AG230	Equine Reproduction	3
AG115 Animal Science	3			
AG130 Principles of Ag Economics	3		Equine Science	
AG132 Agriculture Management	3	AG111	Animal Management	3
AG134 Agriculture Marketing	3	AG116	Principles of Feeding	3
AG210 Agriculture Advertising and Design	3	AG122	Introduction to Horsemanship	2
		AG128	Animal Health & Nutrition	3
Elective Courses	24-27 cr	AG139	Farm Animal Reproduction	4
Economics		AG155	Comparative Agriculture	1
AG155 Comparative Ag	1	AG157	Equine Industry Management	3
AG157 Equine Industry Management I	3	AG159	Equine Evaluation	1
AG190 Marketing the Equine Industry	3	AG160	Introduction to Biotechnology	3
AG217 Farm Computer Applications	3	AG165	Equine Evaluation II	1
AG220 Cooperative Ed Internship	1-6	AG166	Fundamentals of Livestock Nutrition	3
AG300 Commerical Driver's License	1	AG190	Marketing the Equine Industry	3
BE100 Introduction to Business	3	AG220	Coop Ed Internship	1-3
BE160 Business Accounting	3		r	
BE161 Accounting I	3	Substitu	tions must be approved by the departmen	t chair.
BE162 Accounting II	3			
BE188 Principles of Advertising	3			
MG102 Introduction to Entrepreneurship	3			
Agronomy			CLOU	
AG102 Intro to Plant Pest Control	3			
AG103 Plant & Soils for Crop Production	3			
AG104 Soils	4		AGRICUL1	
AC105 Panga Managamant	2			

cloud county community college

AG105 Range Management

AG106 Soil Classification

Associate of General Studies - 62 Hours

	red General Education Courses	25 cr	AG128	Animal Health and Nutrition	3
Communication Requirement		6	AG139	Farm Animal Reproduction	4
	101 English Composition I (3 cr)		AG160	Intro to Biotechnology	3
	115 Public Speaking (3 cr) or				
C	M240 Interpersonal Communications (3 cr)			Business	
3.6.1			AG132	Agriculture Management	3
	matics Requirement	3	AG134	Agricultural Marketing	3
	hematics General Education Course or		AG147	Lab Methods in Ag-Biotech	4
	MA110 Intermediate Algebra (3 cr)		AG217	Farm Computer Application I	3
Нита	nities Requirement	3	BE100	Introduction to Business	3
Art	Humanities		BE121	Business Communications	3
Mus	ic Literature		BE139	Basic Personal Finance	1
Thea	1 /		BE152	Salesmanship	3
Fore	eign Language History		BE153	Personal Finance	3
			BE154	Business Law	3
	Behavioral Science Requirement	3	BE155	Marketing	3
	nomics Anthropology		BE160	Business Accounting	3
	chology Political Science		BE161	Accounting I	3
Soci	ology Geography		BE162	Accounting II	3
Нита	nities or Social Science Requirement	3	BE165	Computerized Accounting	3
	st be from second area)		BE166	Payroll Accounting	3
			BE170	Business Statistics	3
Natura	al Science Requirement	4	BE172	Customer Service	3
	sical Science w/lab or		BE185	Human Resource Management	3
	Biological Science w/lab		BE188	Principles of Advertising	3
	-	2	MG101	Management Principles	3
Open C	General Education Elective	3	MG102	Introduction to Entrepreneurship	3
Requi	red Agriculture Courses	13 cr			
AG101	Crop Science or	13 (1		Communications	
	50 Introduction to Horticulture	4	AR120	Design I	3
AG115	Animal Science	3	AR121	Graphic Design I	3
AG130	Principles of Ag Economics	3	AR129	Introduction to Digital Photography	3
AG210	Agriculture Advertising and Design	3	CM129	Media Law and Ethics	3
710210	rigiteditate riaver tioning and Deorgii	5	CM136	Mass Communications Software	3
Electiv	ve Courses	18 cr	CM137	Intro to Multimedia Communications	3
Liecuv		10 (1	CM138	Broadcast News	3
	Agronomy		CM155	Digital Magazine Prod: Storytelling	3
AG101	Crop Science	4	CM156	Digital Magazine Prod: Design and Style	3
AG102	Intro to Plant Pest Control	3	CM157	Mass Media Production I	3
AG103	Plant and Soils for Crop Prod.	3	CM158	Mass Media Production II	3
AG104	Soils	4	CS104	Intro to Website Design	3
AG105	Range Management	3	CS107	Graphic Software Applications	3
AG106	Soil Classification and Evaluation	1	JN100	Mass Media in Society	3
AG107	Agronomy ID and Experimentation	1			
AG108	Environmental Quality	3			
AG109	Environmental Quality Lab	1			
AG112	Agronomy ID and Experimentation II	1			
AG164	Advanced Soil Class and Eval	1		CLOUI	
	Animal Science			ACDICILLE	11
AG111	Animal Management	3		AGRICULT	U
AG111	Principles of Feeding	3		ud county community	
AG118	Prin. of Livestock Selection I	2	(101	а соинсу сонни интер	CU
AG118 AG119	Prin. of Livestock Selection II	1			
AGIIY	I IIII. OI LIVESTOCK SCIECTIOII II	1			

Associate of General Studies (con't)

JN101	Basic Media Writing	3	AG256	Precision Ag Software	3	
JN140	Beyond Web 2.0: Social Media as Identity	3	WE240	GIS/GPS	3	
	Equine			Additional Electives		
AG122	Intro to Horsemanship	2	AG170	Wildlife Management	3	
AG125	Horse Science	3	AG220	Cooperative Education Internship	1-4	
AG129	Equine Groundwork Training	2	AG299	CDL: maps, log books, DOT Regs	1	
AG157	Equine Industry Management I	3	AG300	Commercial Driver's License	1	
AG159	Equine Evaluation	1	AG301	Truck and Tractor Trailer Insp & Maint	1	
AG165	Equine Evaluation II	1	AG302	In City CDL Driving	1	
AG166	Fund. of Livestock Nutrition	3	CS108	Computer Applications	3	
AG188	Varsity Sports: Eques/Rodeo I	1	IE106	Welding	3	
AG189	Varsity Sports: Eques/Rodeo II	1	IE107	Advanced Welding	3	
AG190	Marketing the Equine Industry	3	IE116	OSHA 10-Hour Construction Training	.5	
AG225	Basic Equitation	3	IE117	OSHA 10-Hour General Industry Training	1	
AG226	Advanced Equitation	3	SE100	Introduction to Solar Energy	3	
AG228	Focused Equitation	3	UA100	Introduction to UAV	3	
	_		UA210	sUAS Systems & Conceptual Design	3	
	Commercial Gardening		WE110	Electrical Theory	3	
AG102	Intro to Plant Pest Control	3	WE120	Hydraulics	3	
AG150	Introduction to Horticulture	3	WE150	Mechanical Systems	3	
AG240	The Horticulture Industry	3	WE240	GIS/GPS		3
AG241	Com. Prod. of Fruit and Veg.	3				
			Life Sk	tills		
	Agri-Biotechnolgy		BE139	Basic Personal Finance	1	
AG160	Intro to Biotechnology	3	BE210	Leadership Development	3	
AG236	Molecular Bio for Agri-Biotech	4	PE141	Personal Wellness	3	
AG237	Int. Org. & Biochem for AgBio	5	PE250	Stress Management	3	
AG250	Intro to Genetic Engineering	4	SS106	Marriage and Family	3	
	Precision Agriculture					
AG255	Precision Ag Hardware	3	Open 1	Electives	6 cr	



Associate of Science - 62 Hours

Requi i	red General Education Courses	32 - 34 cr		Business	
	iunication Requirement	9	AG132	Agriculture Management	3
CM101 English Composition I (3 cr)			AG134	Agricultural Marketing	3
CM102 English Composition II (3 cr)			AG217	Farm Computer Application I	3
	115 Public Speaking (3 cr) or		BE100	Intro to Business	3
Cl	M240 Interpersonal Communications (3 cr)		BE152	Salesmanship	3
Нита	nities Requirement (2 areas required)	6	BE153	Personal Finance	3
Art	Humanities	Ü	BE160	Business Accounting	3
Mus	sic Literature		BE161	Accounting I	3
Thea	atre Philosophy		BE162	Accounting II	3
Fore	eign Language History		BE188	Principles of Advertising	3
	matics Requirement hematics General Education Course	3	MG102	Introduction to Entrepreneurship	3
				Commercial Gardening	
	al Science Requirement (2 areas required)	8-10	AG150	Introduction to Horticulture	3
	sical Science (4-5 cr)		AG240	The Horticulture Industry	3
Biol	ogical Science (4-5 cr)		AG241	Commercial Production of Fruit & Vegetab	les 3
Social/	Behavioral Science Requirement	6			
	(2 areas required)			Communications	
Eco	nomics Anthropology		CM136	Mass Communications Software	3
Psyc	chology Political Science			Intro to Multimedia Communications	3
Soci	ology Geography		JN100	Mass Media in Society	3
Requir	red Agriculture Courses	13 cr		Equine	
	Crop Science or	13 C1	AG122	Intro to Horsemanship	2
	150 Introduction to Horticulture	4	AG125	Horse Science	3
AG115	Animal Science	3	AG159	Equine Evaluation	1
AG130	Principles of Ag Economics	3	AG165	Equine Evaluation II	1
AG210	Agriculture Advertising and Design	3	AG166	Fund. of Livestock Nutrition	3
	8		AG188	Varsity Sports: Eques/Rodeo I	1
Electiv	ve Courses	11 cr	AG189	Varsity Sports: Eques/Rodeo II	1
Liectiv		11 (1	AG190	Marketing the Equine Industry	3
A C 1 O 1	Agronomy	4	AG225	Basic Equitation	3
AG101	Crop Science	4	AG226	Advanced Equitation	3
AG102	Intro to Plant Pest Control	3	AG228	Focused Equitation	3
AG103	Plant and Soils for Crop Prod.	3		_	
AG104	Soils	4		Math and Science (Pre-Vet)	
AG105	Range Management	3	MA112	Trigonometry	3
AG106	Soil Classification and Eval	1	SC110	Principles of Biology	5
AG107	Agronomy ID and Exp.	1	SC111	Microbiology Lecture	3
	Environmental Quality	3	SC112	Microbiology Lab	2
AG109	Environmental Quality Lab	1	SC131	Chemistry I	5
AG112	Agronomy ID and Exp. II	1	SC132	Chemistry II	5
AG164	Advanced Soil Class and Eval	1	SC140	College Physics I	5
	Animal Science		SC141	College Physics II	5
AG111	Animal Management	3			
AG111	Principles of Feeding	3		Additional Electives	
AG118	Prin. of Livestock Selection I	2	AG155	Comparative Ag	1
AG118 AG119	Prin. of Livestock Selection II	1	AG160	Introduction to Biotechnology	3
AG119 AG123	Beef Science	3	AG170	Wildlife Management	3
AG123 AG127	Ag Science for Agri-Biotechology	4	AG220	Cooperative Education Internship	1-4
AG127 AG128	Animal Health and Nutrition	3	WE240	GIS/GPS	3
AG128 AG139	Farm Animal Repro	<i>3 4</i>			
ЛСПЭЭ	i aim Ammai Nepro	T	Open 1	Electives	6 c

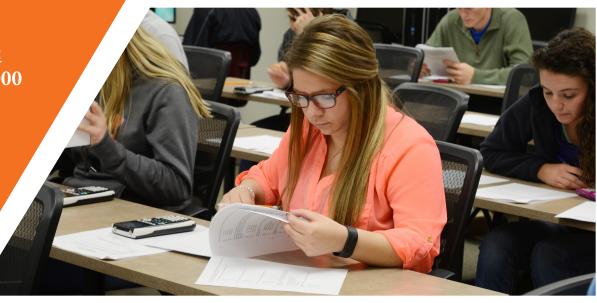
Focus Areas:

General Business,
Accounting, Marketing,
Office Management,
Business Administration,
Economics

BUSINESS

Department Chair: Shelly Farha *sfarha@cloud.edu* •• 243.1435, *ext.* 260

Employment: \$40,000-\$100,000



Potential Careers:

- Accountant
- Payroll Manager
- Office Manager
- Entrepreneur
- Sale Representative
- Marketing Analyst

Program Learning Outcomes:

- 1. Demonstrate business literacy.
- 2. Demonstrate the ability to think critically about business topics.
- 3. Demonstrate the ability to function in a business environment.

DEGREES & CERTIFICATES

Business

Associate of General Studies 62 Hours

Required General Education Courses		25 cr
Communication Requirement CM101 English Composition I (3 cr) CM115 Public Speaking (3 cr) or CM240 Interpersonal Communications (3 cr)		6
Humanities Requirement (2 areas required) Art Humanities Music Literature Theatre Philosophy Foreign Language History		6
Mathematics Requirement Mathematics General Education Course or MA110 Intermediate Algebra (3 cr)		3
Natural Science Requirement Physical Science w/Lab or Biological Science w/Lab		4
Social/Behavioral Science Requirement (2 areas required) EC101 Principles of Macroeconomics (3 cr) (1 additional area required) (3 cr) Anthropology Geography Psychology Political Science Sociology		6
Required Business Courses		6 cr
BE100 Introduction to Business BE160 Business Accounting or	3	
BE161 Accounting I	3	

Electiv	ve Courses	21 cr
	Business	
BE115	Business Math	3
BE121	Business Communications	3
BE139	Basic Personal Finance	1
BE152	Salesmanship	3
BE153	Personal Finance	3
BE154	Business Law	3
BE155	Marketing	3
BE160	Business Accounting	3
BE161	Accounting I	3
BE162	Accounting II	3
BE165	Computerized Accounting	3
BE166	Payroll Accounting	3
BE170	Business Statistics	3
BE185	Human Resource Management	3
BE188	Principles of Advertising	3
BE210	Leadership Development	3
BE220	Cooperative Ed Internship	3
CA221	Job Search	1
CS108	Computer Applications	3
EC102	Principles of Microeconomics	3
MA115	Linear Algebra/General Calculus	3
MG101	Management Principles	3
MG102	Introduction to Entrepreneurship	3
PE141	Personal Wellness	3
PE250	Stress Management	3

Open Electives 10 c



Business

Associate of Arts 62 Hours

Required General Education Courses		31 cr
Communication Requirement CM101 English Composition I (3 cr) CM102 English Composition II (3 cr) CM115 Public Speaking (3 cr) or CM240 Interpersonal Communications (3 cr)	9	
Humanities Requirement (2 areas required) Art Humanities Music Literature Theatre Philosophy Foreign Language History	6	
Mathematics Requirement Mathematics General Education Course	3	
Natural Science Requirement (1 area required) Physical Science (4-5 cr) Biological Science (4-5 cr)	4-5	
Social/Behavioral Science Requirement (2 areas required) EC101 Principles of Macroeconomics (3 cr) (1 additional area required) (3 cr) Anthropology Geography Psychology Political Science Sociology	6	
Open General Education Elective	3	

Required Business Courses			
_	Introduction to Business	3	
BE161	Accounting I	3	
BE162	Accounting II	3	
EC102	Principles of Microeconomics	3	

Electiv	re Courses		12 cr
	Business		
BE115	Business Math	3	
BE121	Business Communications	3	
BE152	Salesmanship	3	
BE153	Personal Finance	3	
BE154	Business Law	3	
BE155	Marketing	3	
BE160	Business Accounting	3	
BE163	Financial Accounting	4	
BE164	Managerial Accounting	3	
BE165	Computerized Accounting	3	
BE166	Payroll Accounting	3	
BE170	Business Statistics	3	
BE185	Human Resource Management	3	
BE188	Principles of Advertising	3	
BE210	Leadership Development	3	
BE220	Cooperative Ed Internship	2	
MG101	Management Principles	3	
MG102	Introduction to Entrepreneurship	3	
	Additional Electives		
CA221	Job Search	1	
CS108	Computer Applications	3	
MA115		3	
SC	Science Gen Ed Course w/Lab	4-5	
SS	Social Science Gen Ed Course	3	
Open I	Electives		7 cr

Focus Areas: Journalism, Mass Communications, Graphic Design, English, Literature, Drama, Speech

COMMUNICATIONS

Department Chair:

brandon.galm@cloud.edu • • 243.1435, ext. 240

Employment: \$30,000-\$65,000



Potential Careers:

- Radio Station News Director
- Journalist
- Web Designer
- Graphic Designer
- TV Reporter

Program/General Education Learning Outcomes:

- 1. Recognize communication conventions unique to multiple discourses and make appropriate communication choices according to those conventions.
- 2. Apply fundamental communication theories to rhetorical choices in both written and spoken formats.
- 3. Engage through listening and reading, and respond thoughtfully with evidence to conflicting viewpoints using both written and spoken forms.
- 4. Ethically synthesize sources and communicate that synthesis coherently in written and spoken form.
- 5. Identify the core elements of both written and spoken arguments and evaluate the quality of those arguments.
- 6. Compose a logical, evidence-based argument.

DEGREES & CERTIFICATES

Associate of General Studies....... A.G.S. - 62 hours Associate of Arts....... A.A. - 62 hours

Communications

Associate of General Studies 62 Hours

Required (General Education	n Courses	25 cr	FL111	Spanish I	4
Communic	cation Requirement		6	PH100	Introduction to Philosophy	3
CM101 I	English Composition I	(3 cr)			Communications	
	Public Speaking (3 cr)			AR120	Design I	3
11-41	: D!		2	AR121	Graphic Design I	3
	ics Requirement		3	AR121 AR129	Introduction to Digital Photography	3
	atics General Education			BE155		3
MAI	10 Intermediate Algeb	ra (3 cr)			Marketing	
Humanitie:	s Requirement		3	BE188	Principles of Advertising Media Law and Ethics	3
Art		manities		CM129 CM136		3
Music	Lite	rature		CM136 CM137		
Theatre	Phi	losophy			Broadcast News	3
Foreign I	Language His	tory		CM136 CM139		3
					1 0	
Social/Beha	avioral Science Requi	irement	3		Digital Magazine Production: Storytelling	3
Economi		hropology			Digital Production: Design and Style	3
Psycholog	gy Poli	itical Science			Mass Media Production I	3
Sociology		ography		CM158		3
			2	CS107	Graphic Software Applications	3
	s or Social Science R	equirement	3	JN100	Mass Media in Society	3
(Must be	from second area)			JN101	Basic Media Writing	3
10				JN140	Beyond Web 2.0: Social Media as Identity	3
	ience Requirement		4		Music	
	Science w/lab or			MU100	Music Appreciation	3
Biolo	gical Science w/lab				American Music	3
Open Gene	eral Education Electiv	10	3		History of Rock	3
open dene	Ton Booleanion Breen		J		Harmony and Ear Training I	4
Required (Communications	Courses	9 cr		Harmony and Ear Training II	4
	glish Composition II o		7 (1		Applied Music: Voice	1
		<i>,</i> 1	3		Applied Music: Piano	1
CM106 Creative Writing CM240 Interpersonal Communication		3		Chamber Singers	1	
	the following:	ation	3	MU160	Concert Choir	1
	Introduction to Literat	1170	3	1.10100		-
	American Literature II				Theater	
	World Literature & the			CM140	Theater Appreciation	3
	Theatre Appreciation	Traman Experience		CM141	C	3
	Introduction to Acting			CM142	O	3
	Mass Media and Societ				Play Production	3
)11100 1	viass ivicula alla societ	у			Play Production II	3
				CM148	American Cinema Appreciation	3
Elective C	ourses		11 cr		Additional Electives	
Ar	·t			CA221		1
AR130 Dra	awing I		3		Cooperative Education Internship	1-4
AR140 Pai	inting I		3	CN1220 CS108	Computer Applications	3
En	alich			C3100	Computer Applications	3
	glish		2		Life Skills	
	glish Composition II		3	BE139	Basic Personal Finance	1
	eative Writing I		3	BE210	Leadership Development	3
	eative Writing II		3	PE141	Personal Wellness	3
	rvey of Technical Writi		3	PE250	Stress Management	3
	roduction to Literature	2	3	SS106	Marriage and Family	3
	nerican Literature I		3			
	nerican Literature II	г .	3			
	orld Literature & the H	uman Experience	3	Onen I	Electives	17 c
	erature for Children		3	Open	DICCLIT CO	17 0
CM127 The	e Short Story		3			

Communications

Associate of Arts 62 Hours

Required General Education Courses	31 cr	FL111	Spanish I	4
Communication Requirement	9	PH100	Introduction to Philosophy	3
CM101 English Composition I (3 cr)		SS108	Women in American Society	3
CM102 English Composition II (3 cr) or				
CM106 Creative Writing (3 cr)		4 D 100	Communications	2
CM115 Public Speaking (3 cr)		AR120	Design I	3
TT		AR121	Graphic Design I	3
Humanities Requirement (2 areas required)	6	AR129	Introduction to Digital Photography	3
CM121 Introduction to Literature (3 cr)		BE152	Salesmanship	3
(1 additional area required) (3 cr) Art Humanities		BE155	Marketing	3
Music History		BE188	Principles of Advertising Media Law and Ethics	3
Theatre Philosophy		CM129		3
Foreign Language		CM136	Mass Communications Software	3
		CM137	Introduction to Multimedia	2
Mathematics Requirement	3	CM138	Communications Broadcast News	3
Mathematics General Education Course				3
Natural Science Requirement (1 area required)	4-5	CM139 CM155	Sports Broadcasting Digital Magazine Production: Storytelling	3
Physical Science (4-5 cr)	T -3	CM155	Digital Magazine Production: Storytening Digital Magazine Production:	3
Biological Science (4-5 cr)		CM136	Design and Style	3
Biological Science (4-5 ci)		CM157	Mass Media Production I	3
Social/Behavioral Science Requirement	6	CM158	Mass Media Production II	3
(2 areas required)		CS104	Introduction to Website Design	3
Economics Anthropology		CS104 CS107	Graphic Software Applications	3
Psychology Political Science		JN100	Mass Media in Society	3
Sociology Geography		JN100 JN101	Basic Media Writing	3
		JN140	Beyond Web 2.0: Social Media as Identity	3
Open General Education Elective	3)11110	Doyona (vec 2101 coolai intenia ac incinity	
			Music	
Required Communications Courses	6 cr	MU100	Music Appreciation	3
CM240 Interpersonal Communication	3	MU101	American Music	3
Choose 1 of the Following	3	MU103	History of Rock	3
CM123 American Literature II (3 cr)	/- \	MU110	Harmony and Ear Training I	4
CM124 World Literature & the Human Experier	ice (3 cr)	MU111	7	4
CM140 Theatre Appreciation (3 cr)		MU130	Applied Music: Voice	1
CM141 Introduction to Acting (3 cr)		MU132		1
JN100 Mass Media in Society (3 cr)		MU146	0	1
		MU160	Concert Choir	1
Elective Courses	9 cr		TI	
Art		C) (1 40	Theater	2
AR130 Drawing I	3	CM140	Theater Appreciation	3
AR140 Painting I	3	CM141	Introduction to Acting	3
			Acting II	3
English		CM143	Play Production	3
CM102 English Composition II	3	CM146	Play Production II	3
CM106 Creative Writing I	3	CM148	American Cinema Appreciation	3
CM107 Creative Writing II	3	0	ni	1.0
CM120 Survey of Technical Writing	3	Open I	Electives	16 cı
CM122 American Literature I	3			
CM123 American Literature II	3			
CM124 World Literature & the Human Experience	3			
CM125 Literature for Children	3			
	7			
1	3			
CM155 Digital Magazine Production: Storytelling	3			
	3			

Focus Areas:

Elementary Education, Secondary Education, Agriculture Education, Early Childhood Education

EDUCATION

Department Chair: Spencer Farha safarha@cloud.edu •• 243.1435, ext. 269



Potential Careers:

- Elementary School Teacher
- High School Teacher
- College Professor
- Principal/Superintendent
- Classroom Paraprofessional

Program Learning Outcomes: Education:

- 1. Prepare effective institution plans, appropriate for content and grade level.
- 2. Analyze sample instructional scenarios using modern pedagogical research.
- Formulate an educational philosophy that incorporates responsible behaviors, relationships, and environments.

Early Childhood Education:

- Use the knowledge of young children's characteristics and needs to analyze all developmental domains regarding multiple influences on children's development and learning.
- 2. Create respectful, reciprocal relationships that support and empower families to be involved in their children's development and learning.
- Apply systematic observations, documentation, and other effective assessment strategies in a responsible way to positively influence children's development and learning.

DEGREES & CERTIFICATES

EARLY CHILDHOOD EDUCATION

30-Hour Certificate

Required General Education Courses 9 cr

Choose 3 of the following:

CM101 English Composition I (3 cr)

CM115 Public Speaking (3 cr)

MA110 Intermediate Algebra (3 cr) or

Mathematics General Education Course (3 cr)

Science General Education Course w/lab (4 cr)

Social Science General Education Course (3 cr)

Required Early Childhood Education Courses 6 cr

Choose 2 of the following:

HE150 Early Childhood Development (3 cr)

HE153 Creative Activities for Young Children (3cr)

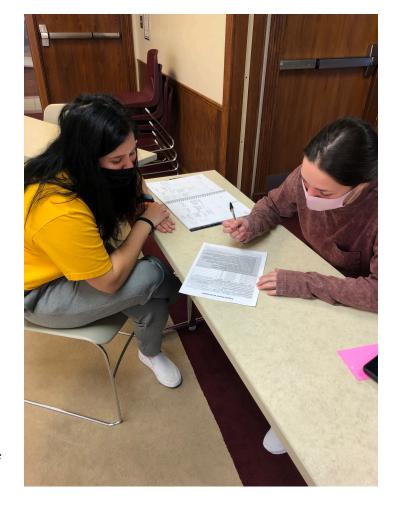
HE164 Development Program Planning for

Young Children < 2.5 (3 cr)

15 cr
3
3
3
1
3
3
1
3
3
1
6
3
3
1
3

^{*}These labs will be in programs with preschool age children.

Due to the nature of the work with young children and their families, all students enrolled in the courses must have a physical on file with a negative TB test, and be cleared by the Child Abuse Registry through the Kansas Bureau of Investigation.



Associate of General Studies 62 Hours

Requir	red General Education Courses		25 cr	CM123	American Literature II	3
	unication Requirement		6		World Lit & the Human Experience	3
	101 English Composition I (3 cr)			CM125	Literature for Children	3
	115 Public Speaking (3 cr)			CM127	The Short Story	3
			2	CM136	Mass Communications Software	3
	nities Requirement		3	CM137	Intro to Multimedia Communications	3
Art	Humanities			CM138	Broadcast News	3
Mus				CM139	Sports Broadcasting	3
Thea	1 /			CM140	Theatre Appreciation	3
1016	ign Language History			CM141	Introduction to Acting	3
Social/	Behavioral Science Requirement		3	CM142	Acting II	3
SS10	11 General Psychology (3 cr)			CM143	Play Production	3
	,			CM156	Digital Magazine Production: Design and Style	3
Humai	nities or *Social Science Requirement	t	3	CM157	Mass Media Production I	3
	st be from second area)			CM158	Mass Media Production II	3
	choosing a Social Science, it must be from	an		CS107	Graphic Software Applications	3
ar	ea other than Psychology.			CS108	Computer Applications	3
Matha	matics Requirement		3	JN100	Mass Media in Society	3
	hematics General Education Course or		3	JN101	Basic Media Writing	3
	MA110 Intermediate Algebra (3 cr)			JN140	Beyond Web 2.0: Social Media as Identity	3
1	WATTO Intermediate Algebra (3 cr)			•	,	
Natura	ıl Science Requirement		4		Early Childhood Education	
Phys	sical Science w/Lab or			HE150	Early Childhood Development	3
I	Biological Science w/Lab			HE151	Early Childhood Development Lab	1
0			2	HE152	Interactive Techniques with Young Children	3
Open (General Education Elective		3	HE153	Creative Activities for Young Children	3
				HE154	Creative Activities for Young Children Lab	1
Requir	red Education Courses		7-8 cr	HE155	Parents, Providers, & Community Relationship	
ED100	Introduction to Education	3		HE156	Developmental Program Planning for Young	
ED101	Introduction to Education Practicum 1	-2			Children Over 2.5	3
SS105	Human Growth & Development	3		HE157	Developmental Program Planning for Young	
	•				Children Over 2.5 Lab	1
Flectiv	ve Courses		15 cr	HE160	Child Care Administration and Organization	3
Licciiv	Agriculture		13 (1	HE161	Health and Nutrition for Young Children	3
AG101	_	4		HE162	Childcare Management	1
AG101 AG104		4 3		HE164	Developmental Program Planning for Young	
AG104 AG115					Children Under 2.5	3
		3		HE165	Developmental Program Planning for Young	
AG130	Principles of Ag Economics	3			Children Under 2.5 Lab	1
AG210	Agriculture Advertising & Design	3				
	Art				Health and Physical Education	
AR100	Art Appreciation	3		PE131	First Aid & Safety	3
	Ceramics	3		PE136	Theory of Coaching	3
		3		PE141	Personal Wellness	3
AR120	0			PE146	Concepts of Team Sports	3
AR130	Drawing I	3		12110	conseque of ream opera	
AR131	Drawing II	3			History	
AR140	Painting I	3		HI120	World History I	3
	0 1 1 1 1 1			HI121	World History II	3
	Communications and Theatre			HI122	U. S. History I	3
AR129	Introduction to Digital Photography	3			•	
	Creative Writing I	3		HI123	U. S. History II	3
	Creative Writing II	3		HI124	Introduction to History	3
	Survey of Technical Writing	3		SS140	U. S. Government: National	3
	Introduction to Literature	3		SS141	U. S. Government: State & Local	3
CM122	American Literature I	3		SS142	Current Political Issues	3

Associate of General Studies (Con't)

	Math			Science	
MA112	Trigonometry	3	SC111	Microbiology Lecture	3
MA114	Elementary Statistics	3	SC112	Microbiology Lab	2
MA120	Analytic Geometry & Calculus I	5	SC120	Human Anatomy & Physiology I	4
MA121	Analytic Geometry & Calculus II	5	SC121	Human Anatomy & Physiology II	4
			SC132	Chemistry II	5
	Music		SC134	Organic Chemistry I	5
MU100	Music Appreciation	3	SC135	Organic Chemistry II	5
MU101	American Music	3	SC140	College Physics I	5
MU102	World Music	3			
MU103	History of Rock Music	3		Social Science	
MU104	Cloud County Community Chorale	1	EC101	Principles of Macroeconomics	3
MU110	Harmony & Ear Training I	4	EC102	Principles of Microeconomics	3
MU111	Harmony & Ear Training II	4	GE101	World Geography	3
MU112	Harmony & Ear Training III	4	HI120	World History I	3
MU113	Harmony & Ear Training IV	4	HI121	World History II	3
MU117	College Band I	1	HI122	U. S. History I	3
MU118	College Band II	1	HI123	U. S. History II	3
MU119	College Band III	1	SS106	Marriage and Family	3
MU126	Concert Band	1	SS125	Introduction to Cultural Anthropology	3
MU127	Jazz Ensemble	1	SS130	Introduction to Sociology	3
MU130	Applied Music: Voice I	1	SS201	Social Problems	3
MU134	Applied Music: Voice II	1			
MU137	Applied Music: Voice III	1		Additional Electives	
MU131	Applied Music:Instrument I	1	CS108	Computer Applications	3
MU135	Applied Music: Instrument II	1			
MU138	Applied Music: Instrument III	1		Life Skills	
MU132	Applied Music: Piano I	1	BE139	Basic Personal Finance	1
MU136	Applied Music: Piano II	1	BE210	Leadership Development	3
MU139	Applied Music: Piano III	1	PE141	Personal Wellness	3
MU146	Chamber Singers I	1	PE250	Stress Management	3
MU147	Chamber Singers II	1	SS106	Marriage and Family	3
MU148	Chamber Singers III	1			
			Open	Flectives	14-15 c



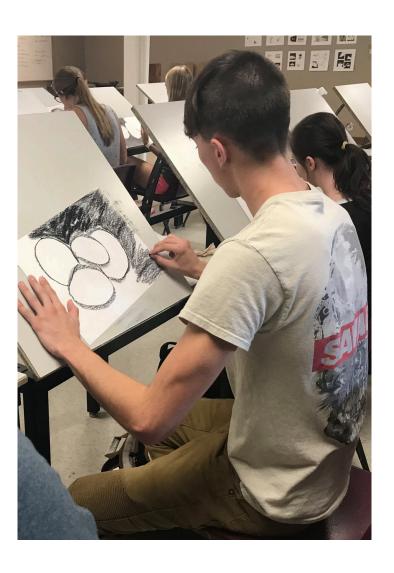
Associate of Arts 62 Hours

Minim	num General Education Required	Courses 31 cr	CM123	American Literature II	3
	unication Requirement	9	CM124	World Literature & the Human Experience	3
	101 English Composition I (3 cr)	ŕ		Literature for Children	3
	102 English Composition II (3 cr)		CM127	The Short Story	3
	115 Public Speaking (3 cr)		CM136		3
			CM137	Intro to Multimedia Communications	3
	nities Requirement (2 areas required)	6	CM138		3
Art	Humanities		CM139	Sports Broadcasting	3
Mus			CM140		3
Thea	1 /		CM141		3
Fore	ign Language History		CM142		3
Mathe	matics Requirement	3	CM143		3
	hematics General Education Course		CM156		3
			CM157	Mass Media Production I	3
	al Science Requirement (1 area required)	4-5	CM158	Mass Media Production II	3
	sical Science w/Lab (4-5 cr)		CS107	Graphic Software Applications	3
Biolo	ogical Science w/Lab (4-5 cr)		CS108	Computer Applications	3
			JN100	Mass Media in Society	3
	Behavioral Science Requirement	6	JN101	Basic Media Writing	3
	(2 areas required)		JN140	Beyond Web 2.0: Social Media as Identity	3
	01 General Psychology (3 cr)		,	.,	
	additional area required) (3 cr)			Early Childhood Education	
	Anthropology Economics		HE150	Early Childhood Education	3
	Geography Political Science		HE151	Early Childhood Education Lab	1
9	Sociology		HE152	Interactive Techniques with Young Children	3
			HE153	Creative Activities for Young Children	3
Open (General Education Elective	3	HE154	Creative Activities for Young Children Lab	1
D	I E I and Comment	7 cr	HE155	Parents, Providers & Community Relationships	
	red Education Courses		HE156	Developmental Program Planning for Young	
ED100	Introduction to Education	3		Children Over 2.5	3
ED101	Introduction to Education Practicum	1	HE157	Developmental Program Planning for Young	
SS105	Human Growth & Development	3		Children Over 2.5 Lab	1
			HE160	Child Care Administration and Organization	3
Electiv	ve Courses	12 cr	HE161	Health and Nutrition for Young Children	3
	Agriculture		HE162	Childcare Management	1
AG101	Crop Science	4	HE164	Developmental Program Planning for Young	
AG104	Soils	3		Children Under 2.5	3
AG115	Animal Science	3	HE165	Developmental Program Planning for Young	-
AG130	Principles of Ag Economics	3		Children Under 2.5 Lab	1
AG210	Agriculture Advertising & Design	3		3	•
				Health and Physical Education	
	Art		PE131	First Aid & Safety	3
AR100	Art Appreciation	3	PE136	Theory of Coaching	3
AR110	Ceramics	3	PE141	Personal Wellness	3
AR120	Design I	3	PE146	Concepts of Team Sports	3
AR130	Drawing I	3			
AR131	Drawing II	3		History	
AR140	Painting I	3	HI120	World History I	3
	Č		HI121	World History II	3
	Communications and Theatre		HI122	U. S. History I	3
AR129	Introduction to Digital Photography	3	HI123	U. S. History II	3
CM106	Creative Writing I	3	HI124	Introduction to History	3
CM107	Creative Writing II	3	SS140	U. S. Government: National	3
CM120	Survey of Technical Writing	3	SS141	U. S. Government: State & Local	3
CM121	Introduction to Literature	3	SS141	Current Political Issues	3
CM122	American Literature I	3			_

Associate of Arts (Con't)

Open Electives

	Math	
MA112	Trigonometry	3
MA114	Elementary Statistics	3
MA120	Analytic Geometry & Calculus I	5
MA121	Analytic Geometry & Calculus II	5
	Music	
MU100	Music Appreciation	3
MU101	American Music	3
MU102	World Music	3
MU103	History of Rock Music	3
MU104	Cloud County Community Chorale	1
MU110	Harmony and Ear Training I	4
MU111	Harmony and Ear Training II	4
MU112	Harmony and Ear Training III	4
MU113	Harmony & Ear Training IV	4
MU117	College Band I	1
MU118	College Band II	1
MU119	College Band III	1
MU126	Concert Band	1
MU127	Jazz Ensemble	1
MU130	Applied Music: Voice I	1
MU134	Applied Music: Voice II	1
MU137	Applied Music: Voice III	1
MU131	Applied Music: Instrument I	1
MU135	Applied Music: Instrument II	1
MU138	Applied Music: Instrument III	1
MU132	Applied Music: Piano I	1
MU136	Applied Music: Piano II	1
MU139	Applied Music: Piano III	1
MU146	Chamber Singers I	1
MU147	Chamber Singers II	1
MU148	Chamber Singers III	1
	Science	
SC111	Microbiology Lecture	3
SC112	Microbiology Lab	2
SC120	Human Anatomy & Physiology I	4
SC121	Human Anatomy & Physiology II	4
SC132	Chemistry II	5
SC134	Organic Chemistry I	5
SC135	Organic Chemistry II	5
SC140	College Physics I	5
	Social Science	
EC101	Principles of Macroeconomics	3
EC102	Principles of Microeconomics	3
GE101	World Geography	3
HI120	World History I	3
HI121	World History II	3
HI122	U. S. History I	3
HI123	U. S. History II	3
SS125	Intro to Cultural Anthropology	3
	1 07	



Focus Areas:
Health,
Recreation,
Athletic Training,

HEALTH & HUMAN PERFORMANCE

Department Chair: Spencer Farha safarha@cloud.edu •• 243.1435, ext. 269



Recent graduates hired as:

- Coach
- Physical Education Instructor
- Athletic Trainer
- Nutritionist

Program Learning Outcomes:

- 1. Design performance strategies related to skillful movement and physical activities.
- 2. Analyze capabilities and needs of clients/athletes to produce plans for exercise and health using appropriate investigation.
- 3. Formulate a philosophy or guiding vision that incorporate responsible behaviors, relationships, and environment towards health and human performance.

Degrees & Certificates

HEALTH AND HUMAN PERFORMANCE

Associate of General Studies 62 Hours

Requir	ed General Education C	ourses		25 cr	PE141	Personal Wellness	3
	unication Requirement	ourses	6	23 CI	PE143	Total Fitness II	1
	01 English Composition I (3	cr)	U		PE144	Archery II	1
	15 Public Speaking (3 cr) or	CI)			PE146	Concepts of Team Sports	3
	1240 Interpersonal Communi	cations (2 cm)			PE148	Introduction to Sports Management	3
CIV	1240 Interpersonal Communi	cations (5 ci)			PE150	Basic Care & Prevention of Athletic Injuries I	3
Mathan	natice Dequipment		3		PE151	Basic Care & Prevention of Athletic Injuries II	
	natics Requirement ematics General Education Co		3		PE155	Recognition & Care of Athetic Injuries	3
					PE156	Principles of Strength & Conditioning	2
N	AA110 Intermediate Algebra(3 Cr)			PE160	Varsity Sports: Baseball	1
Human	iities Requirement		3		PE161	Varsity Sports: Basketball	1
Art	Human	ities			PE161		1
Musi	c Literatu	ıre			PE162 PE165	Varsity Sports: Track Varsity Sports: Softball	_
Theat	tre Philoso	phy			PE163 PE167	Varsity Sports: Solibali Varsity Sports: Cross Country	1
Forei	gn Language History	,					1
					PE168	Varsity Sports: Volleyball	1
Social/1	Behavioral Science Requiren	ıent	3		PE169	Varsity Sports: Wrestling	1
	omics Anthro				PE185	Varsity Sports: Basketball II	1
Psych	nology Politica	l Science				Science	
Socio		phy			SC120	Human Anatomy & Physiology I	4
		- •			SC121	Human Anatomy & Physiology II	4
	ities or Social Science Requ	irement	3		SC126	Anatomy & Physiology	5
(Mus	t be from second area)				SC128	Pathophysiology	4
37.4	10: D :					1	_
	l Science Requirement		4			Social Science	
	cal Science w/lab or				SS101	General Psychology	3
В	iological Science w/lab				SS102	Abnormal Psychology	3
Open G	General Education Elective		3		SS103	Social Psychology	3
open c	ieneral Baneamon Elective		9		SS105	Human Growth and Development	3
ъ .	ler to ter m		2	0	SS106	Marriage and Family	3
	ed Health and Human P	'erformance (Course	es 9 cr	SS107	Human Sexuality	3
	3 of the following:				SS113	Human Relations	3
BE210	Leadership Development		3		SS127	Child Psychology	3
PE131	First Aid and Safety		3		SS130	Introduction to Sociology	3
PE136	Theory of Coaching		3		SS131	Race and Ethnic Relations in the U.S.	3
PE141	Personal Wellness		3		SS201	Social Problems	3
PE148	Introduction to Sport Manage		3			Additional Elections	
PE150	Basic Care & Prevention of A	thletic Injuries I	3		DE154	Additional Electives	2
PE250	Stress Management		3			Business Law	3
					BE155	Marketing	3
Elective	e Courses			14 cr	BE160	Business Accounting	3
	Physical Education				BE161	Accounting I	3
PE101	Team Sports 1		1			Accounting II	3
PE102	Team Sports II		1			Leadership Development	3
PE108	Archery		1			Job Search	1
PE110	Total Fitness		1		CS108	Computer Applications	3
PE126	Cheerleading I		1			World Geography	3
PE127	Cheerleading II		1			Nutrition	3
PE128	Dance Team I		1			Management Principles	3
PE129	Dance Team II		1			Introduction to Entrepreneurship	3
PE130	Introduction to Physical Edu	cation	3		PE220	Coop Ed Internship	2
PE131	First Aid and Safety	CutiOii	3			Life Skills	
PE131 PE134	Personal and Community He	ealth	3		BE153	Personal Finance	3
PE134 PE135	Concepts of Physical Education		3		PE250	Stress Management	3
PE135 PE136	Theory of Coaching	011	3		SS106	Marriage & Family	3
PE136 PE139		ratball	2		33100	iviaitiage & tallilly	5
PE139 PE140	Techniques of Coaching Bask						
FE140	Techniques of Coaching Volle	Субан	2		Open 1	Electives	14 cr

HEALTH AND HUMAN PERFORMANCE

Associate of Science 62 Hours

Requir	ed General Educati	on Courses	32 cr	PE151	Basic Care and Prevention of Athletic Injuries II	3
	unication Requirement		9	PE156	Principles of Strength & Conditioning	2
	101 English Composition			PE160	Varsity Sports: Baseball	1
	102 English Composition			PE161	Varsity Sports: Basketball	1
	115 Public Speaking (3 ca			PE162	Varsity Sports: Track	1
CI	M240 Interpersonal Com	munications (3 cr)		PE165	Varsity Sports: Softball	1
Humai	nities Requirement (2 ai	reas reauired)	6	PE167	Varsity Sports: Cross Country	1
Art		umanities	O	PE168	Varsity Sports: Volleyball	1
Mus		terature		PE169	Varsity Sports: Wrestling	1
Thea	itre Pl	hilosophy		PE185	Varsity Sports: Basketball II	1
Fore	ign Language H	istory		PE250	Stress Management	3
	matics Requirement		3		Social Science	
Matl	nematics General Educati	on Course		SS101	General Psychology	3
Natura	ıl Science Requirement	(2 areas required)	8-10	SS102	Abnormal Psychology	3
	sical Science w/Lab (4-5 c		0-10	SS103	Social Psychology	3
	ogical Science w/Lab (4-5)			SS105	Human Growth and Development	3
	_			SS106	Marriage and Family	3
Social/	Behavioral Science Req	uirement	6	SS107	Human Sexuality	3
_	(2 areas required)			SS113	Human Relations	3
		nthropology		SS125	Introduction to Cultural Anthropology	3
	0.	olitical Science		SS127	Child Psychology	3
Soci	ology G	eography		SS130	Introduction to Sociology	3
				SS131	Race & Ethnic Relations in the U.S.	3
	ed Health and Hum	an Performance Co	ourses 9 cr	SS140	U.S. Government: National	3
	3 of the following:			SS141	U.S. Government: State and Local	3
BE210	Leadership Developmer	nt	3	SS201	Social Problems	3
PE131	First Aid and Safety		3			
PE136	Theory of Coaching		3		Additional Electives	
PE141	Personal Wellness		3	BE154	Business Law	3
PE148	Introduction to Sports 1		3	BE155	Marketing	3
PE150	Basic Care and Preventi	ion of Athletic Injuries I		BE160	Business Accounting	3
PE250	Stress Management		3	BE161	Accounting I	3
				BE162	Accounting II	3
Electiv	re Courses		9 cr	BE210	Leadership Development	3
	Physical Education			HE124	Nutrition	3
PE101	Team Sports 1		1	MG101	Management Principles	3
PE102	Team Sports II		1	MA112	Trigonometry	3
PE108	Archery		1	PE220	Cooperative Ed Internship	2
PE110	Total Fitness		1	SC120	Human Anatomy and Physiology I	4
PE126	Cheerleading I		1	SC121	Human Anatomy and Physiology II	4
PE127	Cheerleading II		1	SC125	Human Body Dissection	1
PE128	Dance Team I		1	SC130	General Chemistry	5
PE129	Dance Team II		1	SC131	Chemistry I	5
PE130	Introduction to Physica	l Education	3	SC140	College Physics I	5
PE131	First Aid and Safety		3			
PE135	Concepts of Physical Ed	lucation	3			
PE136	Theory of Coaching		3	Open I	Electives	12 cr
PE141	Personal Wellness		3	•		
PE143	Total Fitness II		1			
PE144	Archery II		1			
PE146	Concepts of Team Sport		3			
PE148	Introduction to Sports I		3			
PE150	Basic Care and Preventi	ion of Athletic Injuries I	3			

Focus Areas: Art, History, Music, Philosophy, Theatre, Religion

HUMANITIES/ FINE ARTS

Division Dean: Brenton Phillips bphillips@cloud.edu •• 243.1435, ext. 244



Potential Careers:

- Graphic Designer
- Artists
- Attorney
- Event Coordinator
- Musician

Program/General Education Learning Outcomes:

- 1. Explain the interrelated nature of humanities: how humanities shapes the world and how the world shapes humanities.
- 2. Demonstrate understanding of the humanities in a diverse, global context.
- 3. Produce a work that engages with the creative and/or analytical process.
- 4. Demonstrate how the hmanities can allow for introspection, self-discovery, and growth.

DEGREES & CERTIFICATES

Associate of General Studies 62 Hours

				110 0010		
Requir	red General Education Courses		25 cr	AR141	Painting II	3
	unication Requirement		6	AR171	Three-Dimensional Design	3
	101 English Composition I (3 cr)				C	
	115 Public Speaking (3 cr) or				Communication	
	M240 Interpersonal Communications (3 cr)		CM102	English Composition II	3
	•			CM106		3
Mathe	matics Requirement		3	CM107		3
Matl	hematics General Education Course or			CM122	American Literature	3
1	MA110 Intermediate Algebra (3 cr)			CM123		3
Huma	nities Requirement		3	CM124	World Literature & the Human Experience	3
Art	Humanities		3	CM125		3
Mus				CM127	The Short Story	3
Thea				CM140	Theatre Appreciation	3
Fore	ign Language History			CM141	Introduction to Acting	3
				CM142	Acting II	3
Social/	Behavioral Science Requirement		3	CM143	Play Production	3
Ecor	nomics Anthropology			CM146	Play Production II	3
Psyc	hology Political Science			CM148	American Cinema Appreciation	3
Soci	ology Geography			CM156	Digital Magazine	
Нита	nities or Social Science Requirement		3		Production: Design and Style	3
	st be from second area)		3	CS104	Introduction to Website Design	3
(11111	si de from secona area)			CS107	Graphic Software Applications	3
Natura	al Science Requirement		4	CS108	Computer Applications	3
	sical Science w/lab or		-	CS204	Advanced Website Design/With Lab	3
	Biological Science w/lab			JN140	Beyond Web 2.0: Social Media as Identity	3
	-		2			
Open (General Education Elective		3		History	
				HI108	Women in American Society	3
				HI120	World History I	3
D .				HI121	World History II	3
_	red Humanities and Fine Arts C	ourses	6-7 cr	HI122	U.S. History I	3
HI120	World History I or	_		HI123	U.S. History II	3
01	HI121 World History II	3		HI124	Introduction to History	3
Choose	from one of the following:	3-4				
	AR120 Design I (3 cr)				Music	
	CM106 Creative Writing I (3 cr)			MU100	Music Appreciation	3
	HI122 U.S. History I (3 cr)			MU101	American Music	3
	HI123 U.S. History II (3 cr)	4)		MU102	World Music	3
	MU110 Harmony & Ear Training I (4	4 cr)		MU103	•	3
T1			20.21		Cloud County Community Chorale	1
Electiv	ve Courses		20-21 cr	MU110		4
	Art			MU111	Harmony & Ear Training II	4
AR100	Art Appreciation	3		MU112	Harmony & Ear Training III	4
AR110	Ceramics I	3		MU113	Harmony & Ear Training IV	4
AR111	Ceramics II	3		MU117	College Band I	1
AR120	Design I	3		MU118	College Band II	1
AR121	Graphic Design I	3		MU119	College Band III	1
AR122	Graphic Design II	3		MU126	Concert Band	1
AR126	Two-Dimensional Illustration	3		MU127	Jazz Ensemble	1
AR129	Introduction to Digital Photography	3		MU130	Applied Music: Voice I	1
AR130	Drawing I	3		MU134	Applied Music: Voice II	1
AR131	Drawing II	3		MU137	Applied Music: Voice III	1
AR140	Painting I	3		MU131	Applied Music: Instrument I	1
				MU135	Applied Music: Instrument II	1

Associate of General Studies (Con't)

MU132 MU136	Applied Music: Instrument III Applied Music: Piano I Applied Music: Piano II Applied Music: Piano III	1 1 1	BE153 BE210	Life Skills Personal Finance Leadership Development	3
	Philosophy		PE141 PE250	Personal Wellness Stress Management	3
PH100 PH105	Introduction to Philosophy Christian Ethics in Contemporary Society	3	SS106	Marriage & Family	3
RE104	World Religion	3	Open	Electives	10 ci
	Other Elective				
ED100	Introduction to Education	3			
ED101	Introduction to Education Practicum	1-2			



Associate of Arts 62 Hours

	num General Education Required		AR171	Three-Dimensional Design Communications	3
	nunication Requirement	9	CM106	Creative Writing I	2
	101 English Composition I (3 cr)		CM100	C	3
CM.	102 English Composition II (3 cr)			Creative Writing II American Literature	3
	115 Public Speaking (3 cr) or	`	CM122 CM123		3
(CM240 Interpersonal Communications (3	cr)			3
Нита	nities Requirement (2 areas required)	6		World Literature & the Human Experience	3
One	from the following area:	· ·	CM125		3
	Art		CM127		3
	Music		CM140	11	3
,	Theatre		CM141	Č	3
One	from this second area:		CM142		3
]	Foreign Language		CM143	,	3
]	History		CM146		3
]	Humanities		CM148	11	3
]	Literature		CM156	Digital Magazine Production: Design and Style	3
]	Philosophy		CS104	Introduction to Website Design	3
Matha	matics Requirement	3	CS107	Graphic Software Applications	3
	hematics General Education Course	3	CS108	Computer Applications	3
Mat	mematics General Education Course		CS204	Advanced Website Design/With Lab	4
Natura	al Science Requirement (1 area required)	4-5	JN140	Beyond Web 2.0: Social Media as Identity	3
Phys	sical Science w/Lab (4-5 cr)			History	
Biol	ogical Science w/Lab (4-5 cr)		111100	History	2
Social	Behavioral Science Requirement	6	HI108	Women in American Society	3
3001111/		U	HI120	World History I	3
Ecos	(2 areas required) nomics Anthropology		HI121	World History II	3
	1 07		HI122	U.S. History I	3
	07		HI123	U.S. History II	3
3001	ology Geography		HI124	Introduction to History	3
Open (General Education Elective	3		Music	
				Music Appreciation	3
Requir	red Humanities and Fine Arts Co	urses 6-7 cr		American Music	3
HI120 V	World History I or	3		World Music	3
HI12	1 World History II			History of Rock Music	3
	from one of the following:	3-4		Cloud County Community Chorale	1
	AR120 Design I (3 cr)			Harmony & Ear Training I	4
	CM106 Creative Writing I (3 cr)			Harmony & Ear Training II	4
	HI122 U.S. History I (3 cr)			Harmony & Ear Training III	4
	HI123 U.S. History II (3 cr)			Harmony & Ear Training IV	4
	MU110 Harmony & Ear Training I (4 c	r)		College Band	1
	merio riamon, et bar riaming r (re		MU118	College Band II	1
Electiv	70 C011#000	14.15 av	MU119	College Band III	1
Electiv	ve Courses	14-15 cr		Concert Band	1
	Art		MU127	Jazz Ensemble	1
AR100	Art Appreciation	3	MU130		1
AR110	Ceramics I	3		Applied Music: Voice II	1
AR111	Ceramics II	3		Applied Music: Voice III	1
AR120	Design I	3		Applied Music: Instrument I	1
AR121	Graphic Design I	3		Applied Music: Instrument II	1
AR122	Graphic Design II	3	MU138	Applied Music: Instrument III	1
AR126	Two-Dimensional Illustration	3	MU132	Applied Music: Piano I	1
AR129	Introduction to Digital Photography	3	MU136	Applied Music: Piano II	1
AR130	Drawing I	3	MU139		1
AR131	Drawing II	3			
AR140	Painting I	3			
AR141	Painting II	3			

Associate of Arts (Con't)

	Philosophy	
PH100	Introduction to Philosophy	3
PH105	Christian Ethics in Contemporary Society	3
RE104	World Religion	3
	Other Elective	
ED100	Introduction to Education	3
ED101	Introduction to Education Practicum	1-2





Focus Areas: Students may explore courses from any of the fields of study to help identify their preferred areas of interest

INTERDISCIPLINARY STUDIES

Division Dean: Dr. Brian Stark brian.stark@cloud.edu •• 243.1435, ext. 216



Students with a degree are more competitive for employment opportunities.

Program/General Education Learning Outcomes:

- 1. Identify the core elements of both written and spoken arguments and evaluate the quality of those arguments.
- 2. Critically analyze events through a scientific lens.
- 3. Demonstrate understanding of the humanities in a diverse, global
- 4. Demonstrate critical thinking in understanding of psychological and social aspects of the human experience.
- 5. Accurately intrepret, validate, and communicate the result.

DEGREES & CERTIFICATES

Interdisciplinary Studies

Technical Studies Associate of Applied Science 62 Hours

The Associate of Applied Science offers an opportunity for students to continue technical coursework from two or more approved technical programs. This will allow students to gain skills in emerging occupations or meet employer needs by blending courses from multiple technical disciplines into a single approved degree program. This is an individualized program of study between the student and their advisor using courses from Kansas Board of Regents Career and Technical approved programs.

Required General Educ Communication Requirem Proven English Grammati CM101 English Com CM115 Public Speaking	nent ical Proficiency or position I (3 cr) (3 cr) or	15 -18 cr 3-6	Natural Science Requirer Physical Science or Biological Science Social/Behavioral Science (1 area required)		3
CM240 Interpersonal Humanities Requirement (Art Music Theatre	Communications (3 cr) (1 area required) Humanities Literature Philosophy	3	Anthropology Geography Political Science	Economics Psychology Sociology	
Foreign Language	History		Open Electives		44 - 47 cı
Mathematics Requirement Mathematics General Edu MA110 Intermediate	ication Course or	3			



Interdisciplinary Studies

AGS, AA, and AS Degrees 62 Hours

Associate of General Studies

Required General Education Courses Communication Requirement CM101 English Composition I (3 cr) CM115 Public Speaking (3 cr) or CM240 Interpersonal Communications (3 cr)	25 cr
CM101 English Composition I (3 cr) CM115 Public Speaking (3 cr) or	
CM115 Public Speaking (3 cr) or	2
CM115 Public Speaking (3 cr) or	2
CM240 Interpersonal Communications (3 cr)	2
	2
Mathematics Requirement	3
Mathematics General Education Course or	
MA110 Intermediate Algebra (3 cr)	
Humanities Requirement	3
Art Humanities	
Music Literature	
Theatre Philosophy	
Foreign Language History	
Social/Behavioral Science Requirement	3
Economics Anthropology	
Psychology Political Science	
Sociology Geography	
Humanities or Social Science Requirement	3
(Must be from second area)	
Natural Science Requirement	4
Physical Science w/lab or	
Biological Science w/lab	
Open General Education Elective	3
Open Electives	37 cr

Any non-developmental course can be used to fulfill the requirements of the Associate of General Studies degree.

Associate of Arts

Minimum General Edu	cation Required C	ourses	31 cr
Communication Requirem	ient -	9	
CM101 English Composi	tion I (3 cr)		
CM102 English Composi	tion II (3 cr) or		
CM106 Creative Writ	ring (3 cr)		
CM115 Public Speaking	(3 cr) or		
CM240 Interpersonal	Communications (3 cr)		
Humanities Requirement Art Music Theatre Foreign Language	(2 areas required) Humanities Literature Philosophy History	6	

Mathematics Requirement Mathematics General Ed		3
Natural Science Requirem Physical Science w/Lab Biological Science w/Lab	4-5 cr)	4-5
Social/Behavioral Science (2 areas required)	Requirement	6
Economics	Anthropology	
Psychology	Political Science	
Sociology	Geography	
Open General Education	Elective	3
Open Electives		31 cr
Any non-technical, non-deve	elopmental course can b	be used to fulfill the

requirements of the Associate of Arts degree.

Associate of Science

Required General Educa	ation Courses		32 cr
Communication Requireme		9	
CM101 English Composit			
CM102 English Composit	ion II (3 cr) or		
CM106 Creative Writi	ng (3 cr)		
CM115 Public Speaking (3 cr) or		
CM240 Interpersonal	Communications (3 cr)		
Humanities Requirement (2 Art Music Theatre Foreign Language	areas required) Humanities Literature Philosophy History	6	
Mathematics Requirement Mathematics General Educ	cation Course	3	
Natural Science Requirement Physical Science w/Lab (4- Biological Science w/Lab (-5 cr)	8-10	
Social/Behavioral Science R (2 areas required) Economics Psychology Sociology	Anthropology Political Science Geography	6	

Open Electives 30 cr

Any non-technical, non-developmental course can be used to fulfill the requirements of the Associate of Science degree.

Focus Areas: Architecture, Engineering, Mathematics, **Engineering Technology**,

MATHEMATICS & ENGINEERING

Department Chair: Mark Whisler mwhisler@cloud.edu •• 243.1435, ext. 221

Employment: \$60,000-\$100,000 (with bachelor's degree)



Potential Careers:

- Data Analyst
- Civil Engineer
- Chemical Engineer
- Electrical or Mechanical Engineer
- Actuary
- Architect

Program/General Learning Outcomes:

- 1. Recognize the mathematical concepts that are applicable to a scenario.
- 2. Apply technology in analysis.
- 3. Accurately interpret, validate, and communicate the result.

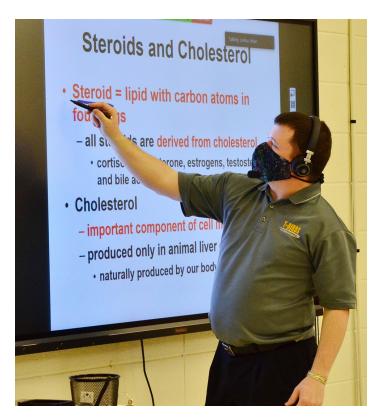
DEGREES & CERTIFICATES

Associate of General Studies....... A.G.S. - 62 hours

Mathematics and Engineering

Associate of General Studies 62 Hours

Required General Educ	ation Courses	25 c	r
Communication Requirems CM101 English Composit CM115 Public Speaking (CM240 Interpersonal C	ent tion I (3 cr) (3 cr) or	6	
Mathematics Requirement Mathematics General Edu MA110 Intermediate A		3	
Humanities Requirement Art Music Theatre Foreign Language	Humanities Literature Philosophy History	3	
Social/Behavioral Science F Economics Psychology Sociology	Requirement Anthropology Political Science Geography	3	
Humanities or Social Scier (Must be from second area)	-	3	
Natural Science Requireme Physical Science w/lab or Biological Science w/la		4	
Open General Education E	lective	3	



Requir	ed Mathematics and Engineering	Courses	13 cr
MA112	Trigonometry	3	
MA120	Analytic Geometry and Calculus I	5	
MA121	Analytic Geometry and Calculus II	5	
	•		
Electiv	e Courses		18 cr
	Math		
MA122	Analytic Geometry and Calculus III	5	
MA123	Differential Equations	4	
MA220	Cooperative Education Internship	2	
	0.1		
0.0104	Science	4	
SC104	Geology	4	
SC107	Meteorology	4	
SC131	Chemistry I	5	
SC132	Chemistry II	5	
SC134	Organic Chemistry I	5	
SC135	Organic Chemistry II	5	
SC140	College Physics I	5	
SC141	College Physics II	5	
SC142	University Physics I	5	
SC143	University Physics II	5	
SC151	Principles of Biology II	5	
	Business		
BE100	Introduction to Business	3	
BE153	Personal Finance	3	
BE160	Business Accounting	3	
BE170	Business Statistics	3	
		-	
	Additional Electives		
CS108	Computer Applications	3	
CS155	Networking and Computer Technology	3	
CA221	Job Search	1	
SE100	Intro to Solar Energy	3	
UA100	Intro to sUAS	3	
WE100	Introduction to Wind Energy	3	
	Life Skills		
BE139	Basic Personal Finance	1	
BE210	Leadership Development	3	
MG102	Introduction to Entreneurship	3	
PE250	Stress Management	3	
SS106	Marriage and Family	3	
33100	mairiage and ranning	3	
Open I	Electives	60	er.
open i	accured.		<u></u>

Mathematics and Engineering

Associate of Science 62 Hours

Required General Educ	cation Courses	33 cr	Electiv	ve Courses	1	0 cı
Communication Requiren		9		Math		
CM101 English Compos	ition I (3 cr)		MA122	Analytic Geometry and Calculus III	5	
CM102 English Compos	ition II (3 cr)		MA123	Differential Equations	4	
CM115 Public Speaking	(3 cr) or		MA220	Cooperative Education Internship	1-2	
CM240 Interpersonal C	Communications (3 cr)					
Have anities Descriptions	(2 areas required)	6		Science		
Humanities Requirement	(2 areas requirea) Humanities	0	SC104	Geology	4	
Art Music	Literature		SC107	Meteorology	4	
Theatre	Philosophy		SC132	Chemistry II	5	
Foreign Language	History		SC134	Organic Chemistry I	5	
	•		SC135	Organic Chemistry II	5	
Mathematics Requirement	t	3	SC140	College Physics I	5	
Mathematics General Edu	acation Course		SC141	College Physics II	5	
Natural Science Dequirem	out (2 areas required)	9	SC142	University Physics I	5	
Natural Science Requirem		9	SC143	University Physics II	5	
SC131 Chemistry I (5 cr *Biological Science (4 cr)			SC151	Principles of Biology II	5	
· ·						
*(Physical Science majors	s should consult their adviso	r about a		Business		
substitution of a physical so	cience)		BE100	Introduction to Business	3	
			BE153	Personal Finance	3	
Social/Behavioral Science		6	BE160	Business Accounting	3	
EC101 Principles of Mac			BE170	Business Statistics	3	
(1 additional area require	ed) (3 cr)					
Anthropology	Geography			Additional Electives		
Psychology	Political Science		CS108	Computer Applications	3	
Sociology			CS155	Networking and Computer Technology	3	
			Open]	Electives	60	cr
Degrined Mathematica	and Engineering Con	12	- r			

Required Mathematics and Engineering Courses 13 cr

	our remonstration with Empire or many	
MA112	Trigonometry	3
MA120	Analytic Geometry and Calculus I	5
MA 121	Analytic Coometry and Calculus II	5



Focus Areas:

Nursing (ADN), Partnership AAS/BSN

Pre-BSN

Nurse's Aide

Medication Aide

EMT

Employment: \$20,000-\$65,000

NURSING & ALLIED HEALTH

Stefanie Perret, Director of Nursing & Allied Health sperret@cloud.edu •• 243.1435, ext. 332



Recent graduates hired as:

- Registered Nurse
- CNA
- CMA
- EMT

Program Learning Outcomes:

- 1. Integrate caring behaviors in practicing the art and science of nursing within a diverse population.
- Implement professional standards and scope of practice within legal, ethical, and regularity framework.
- 3. Collaborate with clients and members of the inter-professional helath care team to optimize client outcomes.
- 4. Formulate safe and effective clinical judgements, guided by the nursing process, clinical reasoning, and evidence-based practices.
- Manage care and provide leadership to meet client needs using available resources and current technology.
- 6. Generate teaching and learning processes to promote and maintain health and to reduce risks for global populations.
- 7. Demonstrate effective communication methods to manage client needs and to interact with other health care team members.

DEGREES & CERTIFICATES

Certified Nurse Aid5 hours	Nursing - Generic Track A.A.S 67 hours
Certified Medication Aid5 hours	Nursing - LPN to ADN A.A.S 67 hours
Emergency Medical Technician16 hours	Associate of General Studies62 hours
	Associate of Science62 hours
	Nursing A.A.S./B.S.N. Partnership Available

NURSING

The ADN program at Cloud County Community College (CCCC) prepares the graduates to practice as registered nurses upon successful completion of the National Council Licensure Examination (NCLEX-RN©). They are qualified to enter a professional position as a generalist in a variety of care settings with clients of all ages from diverse populations. CCCC nursing graduates are also prepared to continue studies at colleges or universities that offer bachelor's degrees in nursing. The Associate Degree in Nursing program does not prepare persons for teaching positions. The generic program option is for students with no prior nursing license, with the ability and resources, whose career goal is registered nursing. The advanced standing program option is for LPNs, whose career goal is to become a registered nurse.

Upon completion, graduates are awarded an Associate of Applied Science degree and are eligible to take the licensure examination for registered nurses, NCLEX-RN©.

Contact:

Stefanie N. Perret Director of Nursing & Allied Health 785-243-1435 x 332 • sperret@cloud.edu

Degree Information

The Associate of Applied Science Degree in Nursing prepares graduates to take the RN licensure exam (NCLEX-RN) and to practice as Registered Nurses.

Recommended Course Sequence: Generic Traditional Option

Certified Nursing Assistant (CNA) - current certification.

Prerequisites: SC126, SS101, SS105, MA110 First Semester: NR111, NR113, SC128 Second Semester: NR112, NR114, CM101 Third Semester: NR211, NR115, CM115 or CM240

Fourth Semester: NR 212, Humanities course

Advanced Standing Option

Prerequisite Courses: CM101, MA110, SS101, SS105, SC126, SC128 LPN Program Portfolio - Transfer 19 cr First Semester: NR210, NR211, NR115, CM115 or CM240

Second Semester: NR212, Humanities course

Licensed as an LPN - May be a practical nursing student at the time of application but must be licensed prior to NR211 Lifespan Nursing III. Acceptance is provisional until Practical Nurse Licensure is confirmed.

NR courses are only offered on the Concordia Campus. Non-nursing courses are offered on the Concordia and Geary County Campuses, through Outreach at various locations and times, and on the Internet.

Additional Enrollment Requirements: Physical Examination: The applicant must have satisfactory physical and mental health. A physical examination and health history are required after admission. It must be submitted by August 1. All immunizations and TB test must be current. Documentation of the influenza immunization will be required in the fall.

CPR certification: Applicants shall provide evidence of current CPR certification at the professional level through the American Heart Association or American Red Cross by Aug 1.

Security Screening: A security screening will be completed prior to any clinical experience. Criminal conviction may jeopardize the ability to continue in the course and/or to obtain licensure.

Health Insurance: Students enrolled in the nursing program are required to carry health insurance as a clinical facility requirement. Proof of coverage must be on file in the nursing office. It is the student's responsibility to continue health insurance coverage throughout the nursing program.

Any health care cost incurred by the student is the responsibility of the student and is not the responsibility of CCCC or any of its clinical agencies. Students are <u>responsible</u> for their own health care.

Convictions or Disciplinary Action - Felony Crimes Against Persons are an automatic bar to Kansas nursing licensure as set by the Kansas legislature. It would require a law (statute) change by the Kansas legislature to allow licensure. Those actions are "as specified in article 34 of chapter 21 of the Kansas Statutes Annotated, prior to their repeal, or article 54 of chapter 21 of the Kansas Statues annotated or K.S.A. 2015 Supp. 21-6104, 21-6325, 21-6326 or 21-6418, and amendments thereto." --Kansas Nurse Practice Act

Literacy Screening: Applicants must have completed General Psychology, Human Growth and Development, Intermediate Algebra and Anatomy and Physiology prior to enrollment in the NR courses. Students with English as a second language are required to take the TOEFL exam to validate proficiency of the English language. *If a student applicant has successfully completed CM101 English Composition I, a TOEFL score is not required.

Approved by:

Kansas State Board of Nursing Landon State Office Building 900 SW Jackson, Suite 1051 Topeka, KS 66612-1230 785-296-4929 ksbn.org

Accredited by:

Accrediting Commission for Education in Nursing (ACEN) 339 Peachtree Road NE, Suite 1400 Atlanta, GA 30326 404-975-5000, fax 404-975-5020

Student Organizations: Student Nurse Association

Nursing AAS/BSN Partnership: The Community College Nursing Partnership offers the comfort and convenience of staying at CCCC while pursuing both the Asssociate Degree in Nursing (ADN) and Bachelor of Science in Nursing (BSN). The program bypasses the traditional prelicensure associate degree nursing step. Instead, this curriculum makes it possible for students to complete the ADN (AAS) and BSN through on-campus courses at CCCC and online courses through Kansas University or Ottawa University. After completing the program, eligible students are awarded both an ADN and a BSN, and are eligible to take the National Council Licensing Exam (NCLEX).

Gainful Employment: The salary for new graduates of ADN programs going to work in acute care in Kansas is approximately \$40,500 - \$65,000. Salary will vary by specialty and location. The Kansas Dept of Health and Welfare states that a serious nursing shortage exists in Kansas for registered nurses. Graduates from the nursing program are consistently employed at a nearly 100% rate. Http://www.kdheks.gov/ches/.

Transfer Institution Guide: A student who is interested in pursuing a baccalaureate degree should consult a CCCC advisor and the transfer guide and catalog of the four-year institution.

ASSOCIATE DEGREE IN NURSING

Associate of Applied Science 67 Hours

Generic Track

General Education Required Courses 23 cr Communication Requirement CM101 English Composition I (3 cr) CM115 Public Speaking (3 cr) or CM240 Interpersonal Communications (3 cr) Humanities Requirement (out of following areas) 3 Humanities Music Literature Theatre Philosophy Foreign Language History Mathematics Requirement 3 MA110 Intermediate Algebra (3 cr) or Mathematics General Education Course Natural Science Requirement 5 SC126 Anatomy & Physiology (5 cr) or SC120 Human Anatomy and Physiology I(4 cr) and SC121 Human Anatomy and Physiology II (4 cr) Social/Behavioral Science Requirement SS101 General Psychology (3 cr) SS105 Human Growth & Development (3 cr)

Requir	ed Courses		44 cr
NR110	Health Assessment for Nurses	3	
NR111	Life Span Nursing I	6	
NR112	Life Span Nursing II	9	
NR114	Pharmacology II	2	
NR115	Pharmacology III	2	
NR211	Life Span Nursing III	9	
NR212	Life Span Nursing IV	9	
SC128	Pathophysiology	4	

CNA prior to August 1.

Note

General Education Courses must be completed with a "C" or better. Nursing (NR) courses with a "B" or better.

LPN to ADN - Advanced Standing Track

General Education Required Courses	23 cr
Communication Requirement CM101 English Composition I (3 cr) CM115 Public Speaking (3 cr) or CM240 Interpersonal Communications (3 cr)	6
Humanities Requirement (out of following areas) Art Humanities Music Literature Theatre Philosophy Foreign Language History	3
Mathematics Requirement MA110 Intermediate Algebra (3 cr) or Mathematics General Education Course	3
Natural Science Requirement SC126 Anatomy & Physiology (5 cr) or SC120 Human Anatomy and Physiology I(4 cr) and SC121 Human Anatomy and Physiology II (4 cr)	5
Social/Behavioral Science Requirement SS101 General Psychology (3 cr) SS105 Human Growth & Development (3 cr)	6

Requir	ed Courses		44 cr
NR115	Pharmacology III	2	
NR210	LPN to ADN Bridge	1	
*NR211	Life Span Nursing III	9	
NR212	Life Span Nursing IV	9	
SC128	Pathophysiology	4	
LPN Por	tfolio	19	
*LPN lice	nse prior to NR211		

Note

General Education Courses must be completed with a "C" or better. Nursing (NR) courses with a "B" or better.

Associate of General Studies 62 Hours

Required General Educ	cation Courses	26-29 cr	
Communication Requirem	ient	6	
CM101 English Composi	ition I (3 cr)		P
CM115 Public Speaking	(3 cr) or		P
CM240 Interpersonal C	Communications (3 cr)		A
Humanities Requirement		3	B B
Art	Humanities		В
Music	Literature		E
Theatre	Philosophy		E
Foreign Language	History		(
Conial/Dalaguianal Caiana	Dagwingurant	2	-
Social/Behavioral Science		3	ŀ
SS101 General Psychology	y (3 cr)		N
II C: -1 C: -1	D	2	N
Humanities or Social Scie		3	N
(Must be from second area	1)		N
Mathematics Requirement	L	3	F F
Mathematics General Edu		3	F
			S
MA110 Intermediate	Aigebra		S
Natural Science Requireme	ant	5-8	S
		3-0	3
SC126 Anatomy & Physio	0.	\	
	omy & Physiology I (4 cr		
SC121 Human Ana	tomy & Physiology II (4	cr)	(
Open General Education I	Elective	3	

	General Education Elective 5 Human Growth & Development	3
Electiv	e Courses	22-24 cr
	Communications	
CM102	English Composition II	3
	Science	
SC103	Physical Science	5
SC111	Microbiology Lecture	3
SC112	Microbiology Lab	2
SC120	Human Anatomy & Physiology I	4
SC121	Human Anatomy & Physiology II	4
SC125	Human Body Dissection	1
SC128	Pathophysiology	4
SC130	General Chemistry	5
SC131	Chemistry I	5
SC132	Chemistry II	5
SC134	Organic Chemistry I	5
SC135	Organic Chemistry II	5
SC140	College Physics I	5
SC141	College Physics II	5
SC142	University Physics I	5
SC143	University Physics II	5
SC151	Principles of Biology II	5

	Additional Electives	
AH163	Emergency Medical Technician	10
AH197	Certified Nurse Aide	5
AH198	Medication Aide	5
BE122	Medical Office Vocabulary	2
BE139	Basic Personal Finance	1
BE160	Business Accounting	3
BE170	Business Statistics	3
BE210	Leadership Development	3
CA221	Job Search	1
HE124	Nutrition	3
MA107	Medical Mathematics	1
MA114	Elementary Statistics	3
MG102	Introduction to Entrepreneurship	3
NR220	Cooperatiave Education Internship	1-4
PE131	First Aid and Safety	3
PE141	Personal Wellness	3
PE250	Stress Management	3
SS100	College Skills	1
SS106	Marriage and Family	3
SS130	Introduction to Sociology	3

Open Electives 12 cr

Associate of Science 62 Hours

33-34 cr	BE17
9	HE12
	CM1
	CM1
	CM1
	CM1
6	CM1
O	CM1
	CS10
	GE10
	HE12
_	HI12
3	HI12
	HI12
9-10	HI12
10	HU2
	HU2
	MA1
	MA1 MA1
	MA1
	MA1
6	MA1
	MU1
	MU1
	MU1
	MU1 PE13
18-20 cr	MU1
18-20 cr	MU1 PE13
18-20 cr	MU1 PE13 PH10 SS10 SS10
18-20 cr	MU1 PE13 PH10 SS10
18-20 cr	MU1 PE13 PH10 SS10 SS10
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS10
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS12
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS10
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS12
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS12
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS12
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS10 SS12
18-20 cr	MU1 PE13 PH10 SS10 SS10 SS12
	9 6 3 9-10

BE170	Business Statistics	3
HE124	Nutrition	3
CM121	Introduction to Literature	3
CM122	American Literature I	3
CM123	American Literature II	3
CM124	World Literature & the Human Experience	3
CM140	Theatre Appreciation	3
CM148	American Cinema Appreciation	3
CS108	Computer Applications	3
GE101	World Geography	3
HE124	Nutrition	3
HI120	World History I	3
HI121	World History II	3
HI122	U.S. History I	3
HI123	U.S. History II	3
HU201	Humanties I	3
HU202	Humanities II	3
MA107	Medical Mathematics	1
MA112	Trigonometry	3
MA114	Elementary Statistics	3
MA115	Linear Algebra and General Calculus	3
MA120	Analytical Geometry and Calculus I	5
MA121	Analytic Geometry and Calculus II	5
MU100	Music Appreciation	3
MU101	American Music	3
MU102	World Music	3
MU103	History of Rock Music	3
PE131	First Aid and Safety	3
PH100	Introduction to Philosophy	3
SS101	General Psychology	3
SS102	Abnormal Psychology	3
SS105	Human Growth & Development	3
SS125	Introduction to Cultural Anthropology	3

Open Electives 8-10 cr

ALLIED HEALTH

EMERGENCY MEDICAL TECHNICIAN

This course of study will provide the participant with the preparation necessary to test for certification as an Emergency Medical Technician in the State of Kansas. This is the initial course of instruction required for persons involved in providing emergency care. Areas covered include: the control of an accident scene, care of the patient prior to transport, preparation for transport, transport and care of the patient while en-route to the hospital, transfer of a patient to a hospital emergency department, communications, reporting, record keeping, and vehicle care. This Emergency Medical Technician course meets the course requirements of the Kansas Board of Emergency Medical Services as set forth in Kansas Administrative Regulations.

When taken with *First Aid and Safety* and *General Psychology* or *Introduction to Sociology*, the student will be awarded a college-level certificate. These courses will apply toward the requirements for an Associate's degree if the student wishes to continue his or her education. In the state of Kansas, the entry-level hourly wages for certified EMTs range from \$13.00 to \$15.00 per hour with an annual salary ranging from \$26,000 to \$32,000.

PROGRAM LEARNING OUTCOMES:

1. Demonstrate the appropriate skills and knowledge to assist in a variety of medical emergencies.

EMT LEVEL I

16-Hour Certificate

Required General Education Courses (3 credits) SS101 General Psychology or

SS130 Introduction to Sociology

Required Courses (13 credits)

AH163 Emergency Medical Technician 10
PE131 First Aid and Safety 3

HEALTH AIDE

Certified Nurse Aide, Medication Aide, Medication Aide Update, and Home Health Aide courses are taught at various times and locations in North Central Kansas throughout the year. Contact the Allied Health office at the college (785-243-1435, ext. 372) for information as to times and locations of these courses.

Certified Nurse Aide

The student who completes/passes this 90 hour course is eligible to take the Kansas State Certified Nurse Aide Exam for licensure as a Certified Nurse Aide. Course delivery methods may be completed by face-to-face classroom sessions or hybrid. This course is considered a Stand Alone Program and is not applicable to any degree, although many LPN (Licensed Practical Nursing) Programs require the applicant to have completed the CNA class before admission to their program. Many CNA's are employed in long-term care facilities. The beginning salary for a CNA in the local area ranges from \$8.50 to \$9.50 per hour. Please contact the Allied Health Office at Cloud County Community College for further information. (785)243-1435 Ext. 372.

Medication Aide

The student who completes/passes this 75 hour course is eligible to take the Kansas State Certified Medication Aide Exam for licensure as a Certified Medication Aide. Course delivery methods may be completed by face-to-face classroom sessions or hybrid. This course is considered a Stand Alone Program and available only to Certified Nurse Aides and is not applicable to any degree. Many CMAs are employed in Long Term Care and Assisted Living Facilities. Local beginning salary range from \$8.95 to \$10.00 per hour. Please contact the Allied Health Office at Cloud County Community College for further information. (785)243-1435 Ext 372.

LPN IV Certification

The Licensed Practical Nurse who completes this 32 hour course is eligible to take the Kansas State Exam for I.V. Therapy Certification. Upon certification and under the supervision of a professional registered nurse, the LPN may engage in a limited scope of intravenous fluid treatment. IV certified LPNs generally practice in long term care settings and some acute care. Salaries range from \$14.05-\$14.38. Please contact the Allied Health Office at Cloud County Community College for further information. (785)243-1435 Ext 372.

3

Focus Areas:

Wind Energy, Solar Energy, Blade Repair, Substation, Unmanned Aircraft

Systems (Drones)

Employment: \$36,000-\$67,000

RENEWABLE ENERGY

Department Chair: Kit Thompson kthompson@cloud.edu •• 243.1435, ext. 256



Recent graduates hired as:

- Wind Farm Technician
- Substation Technician
- Blade Repair Technician
- Wind Farm Manager
- Solar Array Technician

Degrees & Certificates

Blade Repair16-hour c	ertificate S	Substation Technician	33-hour certificate
Wind Energy Technology16-hour c	ertificate V	Wind Energy Technology	33-hour certificate
sUAS (Drones)18-hour c	ertificate S	Solar Energy	A.A.S 64 hours
sUAS (Drones)30-hour c	ertificate s ¹	SUAS (Drones)	A.A.S. 62 hours
Solar Energy33-hour c	ertificate V	Wind Energy Technology	A.A.S. 64 hours

RENEWABLE ENERGY

Program Learning Outcomes:

Wind Energy Technology:

- 1. Safety: Students will know and follow all safety guidelines related to wind energy industry.
- 2. Mechanical: Students will be able to operate, maintain, troubleshoot, and repair mechanical systems.
- Electrical: Students will be able to operate, maintain, troubleshoot, and repair electrical systems.
- 4. Hydraulics: Students will be able to operate, maintain, troubleshoot, and repair hydraulic systems.
- 5. Operations: Students will be able to summarize all aspets of the operation of a wind turbine and its relationship relative to a wind farm including electrical substations.
- General: Students will be able to summarize the pervasive aspects
 of the wind and electrical industries; computer skills, personal
 communications, teamwork, applied physical aspecs, and
 environmental issues.

sUAS:

- 1. Students will be able to select the appropriate platform for the required mission
- Students will be able to describe and discuss recent legislation dealing with sUAS.
- 3. Students will be able to select the appropriate sensor payload for the data required.
- Students will be able to program and perform an autonomous sUAS mission.
- 5. Students will be able to describe and implement a scheduled and as needed maintenance strategy for various sUAS platforms.
- Students will be able to discuss and describe the genesis and initial use of technology used in sUAS.
- 7. Students will be able to define proportional, integral, and deriatives inside a flight algorithm and describe how each impacts flight behavior.
- 8. Students will be able to describe the relationship between motor KV, voltage and prop size and how it relates to efficiency.
- 9. Students will be able to use a sectional chart and identify different airspace.

Solar Energy:

- 1. Safety: Students will be able to identify the various safety hazards associated with PV systems and components.
- 2. Students will be able to identify common types of PV system application with and without energy storage.
- Students will be able to describe the purpose and principles of operation for major PV system components.
- 4. Students will be able to explain how PV modules are configured in series and parallel to build voltage, current, and power output.
- Students will be able to identify the requirements for plan review, permitting, inspections, construction contracts and other matters associated with approvals and code-compliance for PV systems.
- 6. Students will be able to assess project sites, including common roof structural design, types of electrical services, point of interconnection effect on obstructions, shading analysis tools and techniques, and effects of wind exposure.

Renewable Energy

Blade Repair

16-Hour Certificate

General Education Required Courses 3 cr Communication Requirement 3 CM101 English Composition I (3 cr) or CM120 Survey of Technical Writing (3 cr)

Require	ed Blade Repair Courses	13 cr
WE100	Introduction to Wind Energy	3
WE255	Airfoils and Composite Repair	3
WE257	Applied Airfoils	3
*WE262	Blade Repair Operations	4

*Must have admittance to Wind Program to enroll in this course or permission from Department Chair.





Renewable Energy

Wind Energy Technology 16-Hour Certificate

General Education Required Courses		3 cr
CM101 English Composition (3 cr) or CM120 Survey of Technical Writin (3 cr) or MA110 Intermediate Algebra (3 cr) or Mathematics General Education Course	3	
Required Wind Energy Courses		3 cr
WE100 Introduction to Wind Energy	3	

Elective	e Courses		10 cr
CS155	Networking & Computer Technology	3	
SE100	Introduction to Solar Energy	3	
UA100	Introduction to sUAS	3	
WE110	Electrical Theory	3	
WE120	Hydraulics	3	
WE150	Mechanical Systems	3	
*WE210	Electronics	3	
*WE225	Motors, Generators, PLC's	3	
*WE250	Data Acquisition & Communication	3	
WE255	Airfoils and Composite Repair	3	
*WE265	Field Training & Project Operations	3	
WE280	Wind Energy Technology Internship	1-4	

*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



RENEWABLE ENERGY

sUAS Remote Pilot(Drones)

18-Hour Certificate

Gener	al Education Required Courses		6 cı
CM	nunication Requirement 101 English Composition I (3 cr) or CM120 Survey of Technical Writing (3 cr)	3	
MA	matics Requirement 110 Intermediate Algebra or Mathematics General Education Course	3	
Requi	red sUAS Courses		9 cr
UA110	sUAS Ground School	3	
UA140	sUAS Applications	3	
UA150	sUAS Personnel, Safety, & Crew Resource Mgmt	3	
Electiv	ve Courses		3 cr
CS140	Introduction to Robotics	3	
CS145	Introduction to CAD	3	

RENEWABLE ENERGY

sUAS (Drones)

30-Hour Certificate

Genera	al Education Required Courses		6 cr
Comm	unication Requirement	3	
CM1	01 English Composition I (3 cr) or		
(CM120 Survey of Technical Writing (3 cr)		
Mather	natics Requirement	3	
MA1	10 Intermediate Algebra or		
1	Mathematics General Education Course		
Requir	ed sUAS Courses		18 cr
	ed sUAS Courses sUAS Ground School	3	18 cr
	sUAS Ground School	3 3	18 cr
UA110	sUAS Ground School	•	18 cr
UA110 UA140	sUAS Ground School sUAS Applications	3	18 cr
UA110 UA140 UA150	sUAS Ground School sUAS Applications sUAS Personnel, Safety, & Crew Resource Mgmt	3	18 cr
UA110 UA140 UA150 UA201	sUAS Ground School sUAS Applications sUAS Personnel, Safety, & Crew Resource Mgmt sUAS Command, Control, & Comm.	3 3 3	18 cr

Elective	e Courses		6 cr
AG255	Precision Ag Hardware	3	
AG256	Precision Ag Software	3	
AR129	Introduction to Digital Photography	3	
CS140	Introduction to Robotics	3	
CS141	Introduction to Additive Manufacturing		
	(3D Printing)	3	
CS145	Introduction to CAD	3	
MG102	Introduction to Entreprenuership	3	
WE110	Electrical Theory	3	
*WE250	Data Acquisition & Communications	3	
WE280	Wind Energy Technology Internship	4	

*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



Renewable Energy

Solar Energy 33-Hour Certificate

General Education Required Courses		6 cr
Communication Requirement	3	
CM115 Public Speaking (3 cr) or		
CM240 Interpersonal Communications (3 cr)		
Mathematics Requirement	3	
MA110 Intermediate Algebra (3 cr) or		
Mathematics General Education Course		

Require	ed Solar Energy Courses		21 cr
SE100	Introduction to Solar Energy	3	
SE101	Solar Energy Fundamentals	3	
SE102	Solar Energy Design	3	
SE103	Solar Energy Operations & Maintenance	3	
WE105	Employability Skills, Safety, & Blueprint Reading	3	
WE110	Electrical Theory	3	
*WE250	Data Acquisition & Communications	3	

Elective	e Courses		6 cr
BE160	Business Accounting	3	
BE170	Business Statistics	3	
CS108	Computer Applications	3	
CS155	Networking and Computer Technology	3	
MG102	Introduction to Entrepreneurship	3	
SC109	Applied Physics	3	
WE100	Introduction to Wind Energy	3	
*WE210	Electronics	3	
*WE225	Motors, Generators, PLC's	3	
*WE230	Substation & Voltage Regulations	3	
*WE270	Transformer Theory	3	
WE280 V	Vind Energy Technology Internship	1-4	

^{*}Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



RENEWABLE ENERGY

Substation Technician

33-Hour Certificate

General Education Required Courses		6 cr
Communication Requirement CM101 English Composition I (3 cr) or CM120 Survey of Technical Writing (3 cr) or CM115 Public Speaking (3 cr) or CM240 Interpersonal Communications (3 cr)	3	
Mathematics Requirement MA110 Intermediate Algebra (3 cr) or Mathematics General Education Course	3	

Requir	ed Substation Courses		27 cr
WE105	Employability Skills, Safety, & Blueprint		
	Reading	3	
WE110	Electrical Theory	3	
WE202	Electrical Power Delivery	3	
*WE210	Electronics	3	
*WE215	Electrical System Protection & Coordination	3	
*WE225	Motors, Generators, PLC's	3	
*WE230	Substation & Voltage Regulations	3	
*WE250	Data Acquisition & Communication	3	
*WE270	Transformer Theory	3	

*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



RENEWABLE ENERGY

Wind Energy Technology 33-Hour Certificate

General Education Required Courses		6 c
Communication Requirement	3	
CM101 English Composition I (3 cr) or		
CM120 Survey of Technical Writing (3 cr)		
Mathematics Requirement	3	
MA110 Intermediate Algebra (3 cr) or		
Mathematics General Education Course		

Required Wind Energy Courses			
	Introduction to Wind Energy	3	
WE110	Electrical Theory	3	
WE120	Hydraulics	3	
WE150	Mechanical Systems	3	
*WE210	Electronics	3	
*WE225	Motors, Generators, PLC's	3	
*WE265	Field Training & Project Operations	3	

Elective	e Courses		6 cr
CS155	Networking & Computer Technology	3	
SE100	Introduction to Solar Energy	3	
UA100	Introduction to sUAS	3	
*WE230	Substation & Voltage Regulations	3	
*WE250	Data Acquisition & Communication	3	
WE255	Airfoils and Composite Repair	3	
WE280	Wind Energy Technology Internship	1-4	

*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



Renewable Energy

Solar Energy Associate of Applied Science 64 Hours

General Education Req	uired Courses	19	(
Communication Requirem CM101 English Composi CM120 Survey of Tec CM115 Public Speaking CM240 Interpersonal	tion I (3 cr) or chnical Writing (3 cr) (3 cr) or	6	
Humanities Requirement Art Music Theatre Foreign Language	(1area required) Humanities Literature Philosophy History	3	
Mathematics Requirement MA110 Intermediate Algo Mathematics General E	ebra (3 cr) or	3	
SC146 Environmental Sc	·) or		
Social/Behavioral Science (1 area required) Economics Psychology Sociology	Anthropology Political Science Geography	3	

Required Solar Courses			36 cı
SE100	Introduction to Solar Energy	3	
SE101	Solar Energy Fundamentals	3	
SE102	Solar Energy Design	3	
SE103	Solar Energy Operations & Maintenance	3	
SE201	Advanced Solar Energy Design	3	
SE202	Advanced Solar Energy Installation	3	
SE203	Solar Energy System Commissioning	3	
SE204	Solar Energy Advanced Operations & Maintenance	e3	
WE105	Employability Skills, Safety, & Blueprint Reading	3	
WE110	Electrical Theory	3	
*WE210	Electronics	3	
*WE250	Data Acquisition & Communications	3	

Elective Courses			9 c
BE160	Business Accounting	3	
BE170	Business Statistics	3	
CS108	Computer Applications	3	
CS155	Networking and Computer Technology	3	
MG102	Introduction to Entrepreneurship	3	
SC109	Applied Physics	3	
WE100	Introduction to Wind Energy	3	
*WE225	Motors, Generators, PLC's	3	
*WE230	Substation & Voltage Regulations	3	
*WE270	Transformer Theory	3	
WE280	Wind Energy Technology Internship	4	

*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



Renewable Energy

sUAS (Drones)

Associate of Applied Science 62 Hours

General Education Required Courses	19 cr	Required Courses	27 cr
Communication Requirement	6	UA100 Introduction to sUAS	3
CM101 English Composition I (3 cr) or		UA110 sUAS Ground School	3
CM120 Survey of Technical Writing (3 cr)		UA140 sUAS Applications	3
CM115 Public Speaking (3 cr) or		UA150 sUAS Personnel, Safety, & Crew Resouce Mgmt	3
CM240 Interpersonal Communication (3 cr)		UA201 sUAS Command, Control, & Comm.	3
Humanities Requirement (1 area required)	3	UA210 sUAS Systems & Conceptual Design	3
Art Humanities	J	WE240 GIS/GPS	3
Music Literature		*WE250 Data Acquisition and Communications	3
Theatre Philosophy		WE255 Airfoils and Composite Repair	3
Foreign Language History			
Mala C. D	2	Elective Courses	16 cr
Mathematics Requirement	3	AG255 Precision Ag Hardware	3
MA110 Intermediate Algebra (3cr) or		AG256 Precision Ag Software	3
Mathematics General Education Course		AR129 Introduction to Digital Photography	3
Natural Science Requirement	4	CS140 Introduction to Robotics	3
SC107 Meteorology (4 cr) recommended		CS141 Introduction to Additive Manufacturing	
0 : 1/D 1 : 10 : D :		(3D Printing)	3
Social/Behavioral Science Requirement	3	CS145 Introduction to CAD	3
SS101 General Psychology recommended		CS155 Networking & Computer Technology	3
		MG102 Introduction to Entrepreneurship	3
		SC109 Applied Physics	3
		WE110 Electrical Theory	3
		WE280 Wind Energy Tech Internship	4

*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



RENEWABLE ENERGY

WIND ENERGY TECHNOLOGY (WET)

Associate of Applied Science 64 Hours

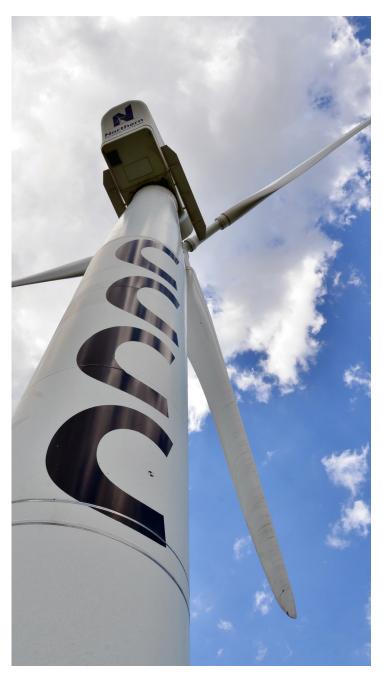
General Education Required Courses		19 c
Communication Requirement	(6
CM101 English Composition I (3 cr) or		
CM120 Survey of Technical Writing (3) CM115 Public Speaking (3 cr) or		
CM240 Interpersonal Communication (3 cr)		
Humanities Requirement (1 area required) Art Humanities		3
Music Literature		
Theatre Philosophy		
Foreign Language History		
Mathematics Requirement		3
MA110 Intermediate Algebra (3 cr) or		
Mathematics General Education Course		
Natural Science Requirement		4
SC107 Meteorology (4 cr)		
Social/Behavioral Science Requirement		3
SS101 General Psychology (3 cr)		
Deguired Wind Courses		20 a
Required Wind Courses	2	39 cı
SC109 Applied Physics	3	

Required Wind Courses			
SC109	Applied Physics	3	
WE100	Introduction to Wind Energy	3	
WE105	Employability Skills, Safety, & Blueprint		
	Reading	3	
WE110	Electrical Theory	3	
WE120	Hydraulics	3	
WE150	Mechanical Systems	3	
*WE210	Electronics	3	
*WE225	Motors, Generators, PLC's	3	
*WE230	Substation & Voltage Regulations	3	
WE240	GIS/GPS	3	
*WE250	Data Acquisition & Communication	3	
WE255	Airfoils and Composite Repair	3	
*WE265	Field Training & Project Operations	3	

Elective Courses			
CS155	Networking & Computer Technology	3	
SE100	Introduction to Solar Energy	3	
UA100	Introduction to sUAS	3	
WE260	Wind Turbine Siting	3	
*WE270	Transformer Theory	3	
WE280	Wind Energy Technology Internship	3-4	

WET internships are available. Visit with department chair for information.

^{*}Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



RENEWABLE ENERGY

Associate of General Studies 62 Hour

Requir	ed General Educ	ation Courses	25	cr	Energy Technology	
	unication Requirem		6		OSHA 10-Hour General Industry Training	1
	01 English Composi				Solar Energy Fundamentals	3
	CM120 Survey of Tech				Solar Energy Design	3
	15 Public Speaking				Solar Energy Operations & Maintenance	3
		Communications (3 cr)			Advanced Solar Energy Design	3
	1	,			Advanced Solar Energy Installation	3
Mathei	matics Requirement		3		Solar Energy System Commissioning	3
	nematics General Edu				Solar Energy Advanced O&M	3
N	MA110 Intermediate	Algebra (3 cr)			sUAS Command, Control, and Communication	
		8()			UAS Systems & Conceptual Design	3
	iities Requirement	**	3		Energy Industry Fundamentals	3
Art		Humanities			Employability Skills, Safety, & Blueprint Reading	
Musi	· -	Literature			Hydraulics	-
Thea		Philosophy				3
rore	ign Language	History			Wind Public/Landowner Relations	3
Casial/	Dalaguianal Caianaa 1	Dagwingurant	2		Mechanical Systems	3
	Behavioral Science I		3		Electrical Power Delivery	3
	iomics	Anthropology			Wind Business	3
	hology	Political Science			Electronics	3
50010	ology	Geography			Electrical System Protection and Coordination	3
Humar	nities or Social Scien	ice Requirement	3		Cooperative Education Internship	3
	st be from second area				Motors, Generators, PLC's	3
	.			*WE227		3
Natura	l Science Requireme	ent	4	*WE230	Substation & Voltage Regulation	3
	ical Science w/lab or			WE240		3
	Biological Science w/la	ab		*WE250	Data Acquisition & Communication	3
	e e			WE255	Airfoils & Composite Repair	3
Open (General Education E	lective	3	WE257	Applied Airfoils	3
D	10 11 0			WE260	Wind Turbine Siting	3
	ed Renewable En		12	cr *WE262	Blade Repair Operations	3
SE100	Introduction to Sola	r Energy	3		Field Training & Project Operations	3
	Introduction to sUA		3		Transformer Theory	3
WE100	Introduction to Win	d Energy	3		Wind Energy Technology Internship	1-4
WE110	Electrical Theory		3			
P1			10		Additional Electives	
Electiv	e Courses		19	00100	Computer Applications	3
	Business				Networking and Computer Technology	3
BE100	Introduction to Busi	ness	3		Elementary Statistics	3
BE152	Salesmanship		3		Meteorology	4
BE154	Business Law		3	SC109	Applied Physics	3
BE155	Marketing		3	SC146	Environmental Science and Conservation	3
BE160	Business Accounting	g	3	SC147	Environmental Science and Conservation Lab	1
BE170	Business Statistics		3			
BE185	Human Resource M	anagement	3		Life Skills	
BE188	Principles of Advert		3		Basic Personal Finance	1
EC101	Prinicples of Macroe		3		Leadership Development	3
EC102	Principles of Microe		3		Personal Wellness	3
MG101	Management Princip		3		Stress Management	3
MG102	Introduction to Entr		3	SS106	Marriage and Family	3
		-				
	Political Science a	and History		<mark>Open E</mark>	lectives	6 cr
HI122	US History I		3	1		
HI123	US History II		3			
SS130	Introduction to Soci	ology	3	*Must hav	ve admittance to Wind Program to enroll in thes	e courses of
SS140	U.S. Gov't: National		3		on from Department Chair.	
SS141	U.S. Gov't: State and	Local	3	Permissio		
SS142	Current Political Issu	ues	3			

RENEWABLE ENERGY

Associate of Science 62 Hours

Required General Educa	ation Courses	32 c
Communication Requireme		9
CM101 English Composit	ion I (3 cr)	
CM102 English Composit	ion II (3 cr)	
CM115 Public Speaking (
CM240 Interpersonal C	ommunications (3 cr)	
Humanities Requirement (2	2 areas required)	6
Art	Humanities	
Music	Literature	
Theatre	Philosophy	
Foreign Language	History	
Mathematics Requirement		3
Mathematics General Educ	cation Course	
Natural Science Requireme	nt	8
	nce & Conservation (3 cr) an	ıd
SC147 Environmental S	cience & Conservation Lab (1	cr)
SC107 Meteorology (4 cr)		
Social/Behavioral Science R	Leguirement	6
(2 areas required)	1	
Economics	Anthropology	
Psychology	Political Science	
Sociology	Geography	
n 1 1n 11 n		

Required Renewable Energy Courses				
SE100	Introduction to Solar Energy	3		
UA100	Introduction to sUAS	3		
WE100	Introduction to Wind Energy	3		
WE110	Electrical Theory	3		

Electiv	e Courses	12 cr
	Business	
BE100	Introduction to Business	3
BE152	Salesmanship	3
BE154	Business Law	3
BE155	Marketing	3
BE160	Business Accounting	3
BE170	Business Statistics	3
BE185	Human Resource Management	3
BE188	Principles of Advertising	3
BE210	Leadership Development	3
EC101	Principles of Macroeconomics	3
EC102	Principles of Microeconomics	3
MG101	Management Principles	3
MG102	Introduction to Entrepreneurship	3
	D-1:4:1 C-: 1 II:-4	
****	Political Science and History	
HI122	US History I	3
HI123	US History II	3
SS130	Introduction to Sociology	3
SS140	U.S. Government: National	3
SS141	U.S. Government: State and Local	3
SS142	Current Political Issues	3

Energy Technology	
*WE210 Electronics	3
WE240 GIS/GPS	3
WE255 Airfoils & Composite Repair	3
Additional Electives	
CS108 Computer Applications	3
CS155 Networking & Computer Technology	3
MA114 Elementary Statistics	3
SC109 Applied Physics	3
Open Electives	60

*Must have admittance to Wind Program to enroll in these courses or permission from Department Chair.



Focus Areas:

Biology, Chemistry, Earth Science, Physics, Pre-Medicine,

Pre-Dentistry,

Pre-Pharmacy,

Pre-Physical Therapy, Pre-Physician Assistant

Employment: \$35,000-\$200,000

SCIENCE

Department Chair: Joshua Urban jrurban@cloud.edu •• 243.1435, ext.245



Potential Careers:

- Environmental Scientist
- Wildlife/Field Biologist
- Doctor, Dentist, Chiropractor
- Research Scientist
- Conservation Officer
- Science Teacher

Program/General Education Learning Outcomes:

- Apply the scientific process to evaluate current issues and circumstances.
- 2. Demonstrate scientific literacy and knowledge about the study.
- 3. Critically analyze events through a scientific lens.
- 4. Demonstrate quantitative reasoning and problem-solving.

DEGREES & CERTIFICATES

Associate of General Studies A.G.S. - 62 hours Associate of Science

Associate of Science A.S. - 62 hours

SCIENCE

Associate of General Studies 62 Hours

Minimum General Educ	cation Required Cou	rses 25 cr		Physical Sciences	
Communication Requirem		6	MA112	Trigonometry	3
CM101 English Composit			MA120	Analytical Geometry and Calculus	5
CM115 Public Speaking ((3 cr) or		SC104	Geology	4
CM240 Interpersonal C	ommunications (3 cr)		SC105	Astronomy	4
•			SC107	Meteorology	4
Mathematics Requirement		3	SC131	Chemistry I	5
Mathematics General Edu	cation Course or		SC132	Chemistry II	5
MA110 Intermediate A	Algebra (3 cr)		SC134	Organic Chemistry I	5
II		2	SC135	Organic Chemistry II	5
Humanities Requirement	Humanities	3	SC137	Natural Hazards and Disasters	3
Art Music	Literature		SC138	Natural Hazards and Disasters Lab	1
Theatre	Philosophy		SC140	College Physics I	5
Foreign Language	History		SC141	College Physics II	5
Torcign Language	Tilstory		SC142	University Physics I	5
Social/Behavioral Science F	Requirement	3	SC143	University Physics II	5
Economics	Anthropology	J	SC146	Environmental Science and Conservation	3
Psychology	Political Science		SC147	Environmental Science and Conservation Lab	1
Sociology	Geography				
Humanities or Social Scien	ice Requirement	3		Life Skills	
(Must be from second area)			BE139	Basic Personal Finance	1
			BE210	Leadership Development	3
Natural Science Requirement		4	PE141	Personal Wellness	3
Physical Science w/lab or			PE250	Stress Management	3
Biological Science w/lab			SS106	Marriage and Family	3
Open General Education E	lective	3	0		10
_			Open	Electives	10 cr

Required Science Courses 9 cr

SC130 General Chemistry (5 cr) or SC131 Chemistry I (5 cr)

Physical Science General Education Course (4 cr)

Elective Courses 18					
	Biological Science				
MA114	Elementary Statistics	3			
SC101	General Biology	4			
SC103	Physical Science	5			
SC110	Principles of Biology I	5			
SC111	Microbiology Lecture	3			
SC112	Microbiology Lab	2			
SC120	Human Anatomy and Physiology I	4			
SC121	Human Anatomy and Physiology II	4			
SC125	Human Body Dissection	1			
SC126	Anatomy and Physiology	5			
SC128	Pathophysiology	4			
SC151	Principles of Biology II	5			
SC199	General Zoology	5			



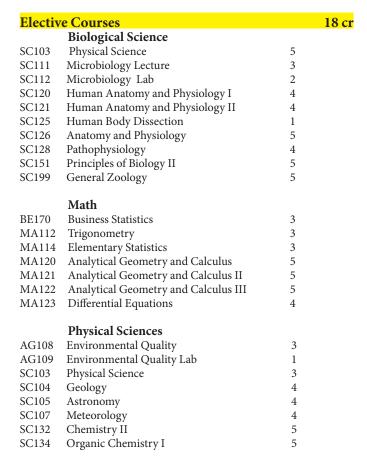
SCIENCE

Associate of Science 62 Hours

Required General Educa	tion Courses	34	cr
Communication Requirement CM101 English Composit CM102 English Composit CM115 Public Speaking (ent ion I (3 cr) ion II (3 cr)	9	
Humanities Requirement (2 Art Music Theatre Foreign Language	e areas required) Humanities Literature Philosophy History	6	
Mathematics Requirement Mathematics General Educ	eation Course	3	
Natural Science Requirement SC131 Chemistry I (5 cr) SC120 Principles of Biolog		10	
Social/Behavioral Science R (2 areas required) Economics Psychology Sociology	equirement Anthropology Political Science Geography	6	

SC135	Organic Chemistry II	5
SC137	Natural Hazards and Disasters	3
SC138	Natural Hazards and Disasters Lab	1
SC140	College Physics I	5
SC141	College Physics II	5
SC142	University Physics I	5
SC143	University Physics II	5
SC146	Environmental Science and Conservation	3
SC147	Environmental Science and Conservation Lab	1
	4 1 1 to 1 Th or	
	Additional Electives	
BE122	Medical Office Vocabulary	2
HE124	Nutrition	3

Open Electives 10 cr





Focus Areas:

Anthropology, Geography, Sociology,

Psychology, Criminal

Justice, Family Studies,

Counseling/Social Work,

Pre-Law/Political Science

SOCIAL SCIENCE

Department Chair: Kristina Frost *kgfrost@cloud.edu* •• 243.1435, *ext.* 265



Potential Careers:

- Social Worker
- High School Counselor
- Corrections Officer
- Emergency Preparedness
- Police Officer

Program/General Education Learning Outcomes:

1. Demonstrate critical thinking in understanding of psychological and social aspects of the human experience.

DEGREES & CERTIFICATES

SOCIAL SCIENCE

Associate of General Studies 62 Hours

Requir	red General Education	n Courses	2	25 cr	SS107	Human Sexuality	3
Communication Requirement		6		SS113	Human Relations	3	
CM101 English Composition I (3 cr)		-		SS125	Introduction to Cultural Anthropology	3	
CM115 Public Speaking (3 cr) or				SS127	Child Psychology	3	
	M240 Interpersonal Comm				SS129	Introduction to Social Work	3
0.	2 10 111001 p 01001011 0011111	(0 01)			SS130	Introduction to Sociology	3
Mathe	matics Requirement		3		SS131	Race and Ethnic Relations in the U.S.	3
	hematics General Education	1 Course or	-		SS140	U.S. Government: National	3
	MA110 Intermediate Algeb				SS141	U.S. Government: State and Local	3
	_	()			SS142	Current Political Issues	3
	nities Requirement	•.•	3		SS150	Introduction to International Relations	3
Art		nanities			SS201	Social Problems	3
Mus		rature					
Thea		losophy				Additional Electives	
1.016	eign Language His	101 y			BE154	Business Law	3
Social	Behavioral Science Requi	romant	3		BE161	Accounting I	3
		hropology	3		CM129	Media Law and Ethics	3
		tical Science			CM240	Interpersonal Communications	3
	07	graphy			FL111	Spanish I	4
3001	ology Gec	grapny			HE168	Family and Cultural Perspectives	3
Huma	nities or Social Science R	equirement	3		HI108	Women in American Society	3
(Mu	st be from second area)	•			HI120	World History I	3
	-				HI121	World History II	3
Natura	al Science Requirement		4		HI122	US History I	3
	sical Science w/lab or				HI123	US History II	3
.]	Biological Science w/lab				HI124	Introduction to History	3
	6 171 71				MA114	Elementary Statistics	3
Open (General Education Electiv	re	3		JN100	Mass Media in Society	3
					JN140	Beyond Web 2.0: Social Media as Identity	3
Electiv	ve Courses		2.	5 cr	PE131	First Aid and Safety	3
	Administration of Jus				PH105	Christian Ethics In Our Contemporary	
AJ100	Introduction to Criminal	Justice	3			Society	3
AJ112	Special Topics in Crimina		3		SS220	Cooperative Ed Internship	3
AJ118	Introduction to Correction	ons	3				
AJ140	Victimology		3			Life Skills	
AJ145	Agency Administration		3		BE210	Leadership Development	3
AJ200	Law Enforcement Operat	ions and Procedures	3		CA221	Job Search	1
AJ205	Criminology		3		PE141	Personal Wellness	3
AJ206	Criminal Law		3		PE250	Stress Management	3
AJ207	Criminal Procedures		3				
AJ209	Juvenile Delinquency and	Justice	3				
AJ210	Criminal Investigations		3		Open 1	Electives	12 cr
AJ211	Criminal Justice Interview	v & Report Writing	3		_		
AJ212	Crisis Intervention		3				
AJ220	Cooperative Ed Internshi		3				
AJ225	Ethics in Criminal Justice		3				
AJ298	Kansas Law Enforcement	Training Transfer 1	.2				
	Social Science						
EC101	Principles of Macroecono	mice	3				
EC101 EC102	Principles of Microecono		3				
GE101	World Geography	iiiico	3				
SS102	Abnormal Psychology		3				
SS102 SS103	Social Psychology		3				
SS105 SS105	Human Growth and Deve	elonment	3				
SS103	Marriage and Family	Jopinent	3				
55100	manifuge and ranning		-				

SOCIAL SCIENCE

Associate of Arts 62 Hours

Minimi	um General Education Required Co	ourses	31 cr
	ınication Requirement	9	
	O1 English Composition I (3 cr)		
CM10	22 English Composition II (3 cr)		
CM1	15 Public Speaking (3 cr) or		
С	M240 Interpersonal Communications (3 cr)		
Human	ities Requirement (2 areas required)	6	
Art	Humanities		
Music	Literature Literature		
Theat	1 /		
Foreiş	gn Language History		
Mathen	natics Requirement	3	
Math	ematics General Education Course		
Natural	Science Requirement (1 area required)	4-5	
	cal Science w/Lab (4-5 cr)		
	gical Science w/Lab (4-5 cr)		
Social/F	Behavioral Science Requirement	6	
JUCIUI/ L	(2 areas required)	U	
SS101	General Psychology (3 cr)		
	Introduction to Sociology (3 cr) or		
	S201 Social Problems (3 cr)		
	()		
Open G	eneral Education Elective	3	
Elective	Courses		19 cr
	Administration of Justice	_	
AJ100	Introduction to Criminal Justice	3	
AJ112	Special Topics in Criminal Justice	3	
AJ118	Introduction to Corrections	3	
AJ140	Victimology	3	
AJ145	Agency Administration	3	
AJ200	Law Enforcement Operations and Procedure		
AJ211 AJ212	Criminal Justice Interview & Report Writing Crisis Intervention	g 3 3	
AJ212 AJ205	Criminology	3	
AJ205	Criminal Law	3	
AJ207	Criminal Procedures	3	
AJ209	Juvenile Delinquency and Justice	3	
AJ210	Criminal Investigations	3	
AJ220	Cooperative Ed Internship	3	
AJ225	Ethics in Criminal Justice	3	
,	,		
	Social Science		
EC101	Principles of Macroeconomics	3	
EC102	Principles of Microeconomics	3	
GE101	World Geography	3	
SS102	Abnormal Psychology	3	
SS103	Social Psychology	3	
SS105	Human Growth and Development	3	
SS106	Marriage and Family	3	
SS107	Human Relations	3	
SS113	Human Relations	3	

Introduction to Cultural Anthropology

SS125

SS127	Child Psychology	3
SS129	Introduction to Social Work	3
SS130	Introduction to Sociology	3
SS131	Race and Ethnic Relations in the U.S.	3
SS140	U.S. Government: National	3
SS141	U.S. Government: State and Local	3
SS142	Current Political Issues	3
SS150	Introduction to International Relations	3
SS201	Social Problems	3
SS220	Cooperative Ed Internship	3
	Additional Electives	
BE154	Business Law	3
BE161	Accounting I	3
BE210	Leadership Development	3
CM129	Media Law and Ethics	3
CM240	Interpersonal Communications	3
FL111	Spanish I	4
HE168	Family and Cultural Perspectives	3
HI108	Women in American Society	3
HI120	World History I	3
HI121	World History II	3
HI122	US History I	3
HI123	US History II	3
HI124	Introduction to History	3
MA114	Elementary Statistics	3
JN100	Mass Media in Society	3
JN140	Beyond Web 2.0: Social Media as Identity	3
PE131	First Aid and Safety	3
PE250	Stress Management	3
PH105	Christian Ethics In Our Contemporary	
	Society	3

Open Electives 12 cr



The courses noted with this symbol qualify for guaranteed transfer. Visit www.kansasregents.org/transfer_articulation for more information.

AGRICULTURE

AG102 INTRODUCTION TO PLANT PEST CONTROL3 This course emphasizes the importance of pest control. Topics covered include the techniques of preventing damage to agriculture crops due to weeds, insects, diseases or nematodes, pesticide use, weed ecology, insects/entomology, and specific pest problems for individual crops.

AG103 PLANT AND SOILS FOR CROP PRODUCTION......3 Covers the biological factors governing crop yield and the culture of major crops in the area. Prerequisite: Plant Science and Soils.

An in-depth look at the management of grazing resources including ecology, economics, burning, brush and weed control, grazing systems and complementary grazing crops.

AG106 SOIL CLASSIFICATION AND EVALUATION1 An exercise in classifying and evaluating soils according to criteria recognized by USDA soil scientists. Soils are evaluated for their usefulness for agriculture and engineering purposes.

*AG107 AGRONOMY IDENTIFICATION AND.....1 EXPERIMENTATION

This course is designed to develop in students an ability to quickly and accurately identify plants by seed and vegetative characteristics and analyze seed samples for impurities. Students will prepare for national competition in agronomy.

AG108 ENVIRONMENTAL QUALITY......3 Is designed to acquaint land managers with the impact of various practices on such environmental parameters as groundwater, fish and wildlife, as well as to introduce methods of improving the environment on a local scale. Means of utilizing under-used natural resources in a profitable and ecologically sound manner will be stressed. Prerequisite: Chemistry I

*AG112 AGRONOMY IDENTIFICATION AND.....1 EXPERIMENTATION II

This course is designed to guide students to quickly and accurately identify crops and weed species (both plant and seed) identification, identify pests of crops including insects and diseases, and distinguish common farming implements. All of these aspects are directed toward competition in the year-end national contests.

Helps to acquaint agricultural students with the scope of the livestock, dairy, and poultry industries. It introduces the basic concepts of inheritance, breeding systems, nutrition and physiology of reproduction; concepts of lactation, growth, egg laying and muscular work; and acquaints students with marketing procedures, carcass and slaughter grades, principles of carcass grading and aids in the evaluation of live animals.

AG118 PRINCIPLES OF LIVESTOCK SELECTION I.........2 This course will consist of the evaluation and appraisal of market livestock and their carcasses and breeding livestock based on visual appraisal and performance records in an effort to organize and justify comparative decisions by presenting oral reasons. This class is designed to make each student more adept at evaluating differences in animals of the same species.

AG119 PRINCIPLES OF LIVESTOCK SELECTION II1 This course will consist of the advanced evaluation and appraisal of market livestock and their carcasses and breeding livestock based on visual appraisal and performance records in an effort to organize and justify comparative decisions by presenting oral reasons. Prerequisite: Principles of Livestock Selection I.

*AG122 INTRODUCTION TO HORSEMANSHIP.....2

Introduction to Horsemanship helps to aquaint students with basic concepts involved in working with horses. This class will stress safety when working with equines for both the human and the horse. Students will study horse psychology including inherited and learned behavior, methods of communicating, and training. This course includes hands on practice and observation.

AG123 BEEF SCIENCE3

Will cover techniques and management practices used in commercial and purebred cow-calf operations, as well as feeder cattle and feedlot operations. Field trips and hands-on practicums are an integral part of this course.

AG125 HORSE SCIENCE3

Horse Science is a study of the basic principles of animal agiculture specifically related to the equine industry. Prerequisite: Animal Science or consent of instructor.

*AG127 AGRICULTURE SCIENCE FOR AGRI-BIOTECHNOLOGY......4

This class is designed to provide students with a background in biotechnology laboratory techniques and practices in the context of plant and animal systems. Topics will include differences between prokaryotic and eukaryotic cells, differences between plant and animal cells, and basic plant biology. This class will demonstrate common laboratory equipment sequencing, isolation, and amplification (PCR).

AG128 ANIMAL HEALTH AND NUTRITION3

A study of the factors that influence animal health and proper nutrition. Typical species (cattle, swine, sheep and horses) in agriculture will be studied. Herd health methods along with upto-date recommendations in animal nutrition will be provided. Prerequisite: AG115 Animal Science

*AG129 EQUINE GROUNDWORK TRAINING2

Groundwork Training allows students with all equine interest levels and experience to learn the principles of working the horse's mind from the ground. It also provides handlers with a better understanding of and the importance of feel and timing when communicating during riding. This class will emphasize safety while teaching how to build a trusting and respectful relationship with horses. Lessons will consist of sensitizing the horse to move away from pressure and desensitizing the horse to help it relax while accepting applied pressure.

AG130 PRINCIPLES OF AGRICULTURAL ECONOMICS3

Is suggested for all students interested in the agricultural economy. A study of economic principles with emphasis on their application to the solution of farm, agribusiness and agricultural industry problems in relationship to other sectors of the U.S. economy and foreign countries.

AG132 AGRICULTURE MANAGEMENT.....3

Relates specifically to management of farms and ranches. Course content will emphasize budget planning, record keeping, record analysis, ag finance/credit, taxes and machinery and land management. Management exercises simulating farm and ranch activities and decisions are incorporated. Microcomputers are used to aid in the completion of these management exercises.

AG134 AGRICULTURAL MARKETING3

Provides an overview of marketing alternatives for agricultural commodities, primarily grains and livestock. Alternatives to be discussed will include cash sales and contracting, hedging, and options. Students will become familiar with marketing plans, basis, and the effect supply and demand has on the markets.

*AG139 FARM ANIMAL REPRODUCTION.....4

Is designed to teach basic anatomy and physiology of reproduction in the domestic animal species. This course will include current reproductive management techniques to give students both a scientific and applied knowledge of livestock reproduction. Field trips and hands-on experience are an integral part of this course.

*AG147 LAB METHODS IN AGRI-BIOTECHNOLOGY......4

This class will teach students to perform skills necessary for employment in the biotechnology industry. Students will be introduced to techniques for preparing laboratory reagents and solutions including culture media and buffers, measuring, precision pipetting, preparing and running DNA and protein gel electrophoreses experiments, separating protiens using chromatography methods, examining and manipulating DNA including DNA fingerprinting, restriction enzyme digests, and PCR, and using math calculations to prepare solutions and calculate pH. Students will learn how to use Excel to create standard curves for estimating protein and DNA concentrations. A unit on basic statistical analysis will be included to support data collection, producing data via experiments, creating distributions, using scatter plots and correlations, and conducting tests of significance.

*AG150 INTRODUCTION TO HORTICULTURE4

This course introduces the basic concepts and practices of horticulture with a survey of different aspects and careers of the horticulture industry. Students will develop professional skills in preparation for a career in the horticultural industry. This course combines three hours lecture and one and one-half hours of laboratory time.

AG155 COMPARATIVE AGRICULTURE.....1

This course is designed to expose students to leading producers, members, management practices, and philosophies of various agricultural industries at various locations. This is a travel-based course where students visit sites and meet with management and employees of various sectors at various locations of the industry.

AG157 EQUINE INDUSTRY MANAGEMENT I......3

Helps to acquaint equine management students with basic concepts involved in operating a day to day equine enterprise. This class will stress business issues and principles involved in an economically successful enterprise.

AG159 EQUINE EVALUATION.....1

The study of evaluating form and function in the equine species. Aspects of evaluation will include physical form as in halter classes, as well as the functional aspect of performance classes in both Western and English disciplines. The preparation of oral reasons to organize and justify comparative decisions will be emphasized. The class is designed to make each student more adept at evaluating differences in animals of the same species and is strongly recommended for students wishing to be on the horse judging team.

*AG160 INTRODUCTION TO BIOTECHNOLOGY3

Is designed to introduce and acquaint students with the use of biotechnology in agriculture today and its applications in the near future. The class will cover aspects in the areas of genetically modified organisms (GMOs), transgenic animals, cloning, and the bovine, ovine, and porcine genome projects, and genetic identification and screening of replacement animals. (Dual listed with science)

*AG164 ADVANCED SOIL CLASSIFICATION AND EVALUATION......1

An advanced exercise in classifying and evaluating soils, according to criteria recognized by USDA soil scientists including the fundamental chemical, physical, and biological properties of soils; their formation, fertility, and management. Soils are evaluated for thier usefulness for agriculture and engineering purposes. Students will use techniques employed in writing descriptions of soil morphology and in classifying soils for intercollegiate soils judging.

AG165 EQUINE EVALUATION II1

This course offers the continued study of evaluating form and function in equine species. Aspects of evaluation will include physical form as in halter classes, as well as the functional aspects of performance classes in both Western and English disciplines. The preparation and delivery of oral reasons to organize and justify comparative decisions will be emphasized. This class is required for students on the horse judging team. Prerequisite: Equine Evaluation

AG166 FUNDAMENTALS OF LIVESTOCK NUTRITION.....3

This course teaches the elementary principles of comparative nutrition in farm animals. Additional topics include the anatomy and physiology of the digestive system; the process of nutrition; the origin, chemistry and feeding value of different feeds; the nutritional requirements; and the theory of practical economy for the maintenance and growth of farm animals.

AG170 WILDLIFE MANAGEMENT3

Is designed to introduce students to scientific principles that will enable them to manage land in a manner that will enhance wildlife populations and to defend the proper use of science in wildlife management.

Students will learn safe horse equitation and livestock handling and basic techniques of showing horses in English and/or western disciplines to compete at Intercollegiate Horse Association events and/or individual National Intercollegiate Rodeo Association events.

*AG189 VARSITY SPORTS: EQUESTRIAN/RODEO SKILLS II......1

Students practice safe horse equitation and livestock handling and learn advanced techniques of showing horses in English and/or western disciplines to compete at Intercollegiate Horse Association events and/or individual National Intercollegiate Rodeo Association events.

AG190 MARKETING THE EQUINE INDUSTRY3

This class is designed to expose students to advertising and marketing principles, as well as provide them with real life experience. The class will be involved in hands on projects in marketing and advertising. Students will sell advertising space, create ads, and publish marketing materials.

AG210 AGRICULTURE ADVERTISING AND DESIGN......3

This course exposes students to advertising and marketing principles as they apply to hands-on projects. Students will use industry-adopted software to develop printed communication pieces to the point of being "printer ready". Assignments will integrate software functionality and design concepts with print production technology requirements.

AG217 FARM COMPUTER APPLICATION I3

Is designed for those with knowledge of Electronic Spreadsheets and Data Management and will involve setting up herd records for livestock operations, developing a ration formulation for actual herd records and developing machinery records and inventory.

AG220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220

*AG224 COMPARATIVE AGRICULTURE II 1-4

This course is a continuation of AG155 Comparative Agriculture and is designed to expose students to leading producers, members, management practices, and philosophies of various agricultural industries at various locations. This is a travel-based course where students visit sites and meet with management and employees of various sectors at various locations of the industry.

*AG225 BASIC EQUITATION......3

This course assists students in advancing basic techniques involved in horseback riding. Safety, proper equipment use, and communication techniques will be emphasized. Students will be expected to increase their skills in performing basic maneuvers on horseback.

*AG226 ADVANCED EQUITATION.....3

Designed to instruct students in how to achieve a higher level of performance with the equine athlete. The course will stress safety while riding, cues and circumstances, and achieving elevated levels of performance. The students will be expected to safely perform advanced maneuvers on horseback. Prerequisite: Basic Equitation or instructor approval.

*AG228 FOCUSED EQUITATION.....3

Designed to allow equestrian students who have completed the series of riding classes to focus on a particular discipline such as western pleasure, trail, hunter hack, jumping, reining, etc. This class will stress safety when working with equines, for both the human and horses. Horse psychology, learning, and training concepts will be introduced to the students. Prerequisite: completion of advanced equitation or instructor permission.

AG236 MOLECULAR BIOLOGY FOR AGRI-BIOTECHNOLOGY......4

Molecular Biology engages the biotechnology student with investigations into the molecular and biochemical nature of cells. Study begins with the biochemical foundations of life and focuses on the central dogma of molecular biology (DNA replications, transcription, and translation). Students will build on techniques learned in previous courses and will gain increased proficiency with techniques involving the manipulation of DNA. Prerequisite: General Biology or Principles of Biology, General Chemistry or Chemistry I, Introduction to Biotechnology, Lab Methods in Agri-Biotech.

*AG237 INTEGRATED ORGANIC AND BIOCHEMISTRY FOR AGRI- BIOTECHNOLOGY......5

This course is designed for students in the Agri-Biotechnology program. It is an integrated organic and biochemistry course that emphasizes the practical aspects of organic chemistry and biochemistry necessary for the comprehension of biotechnical processes. Prerequisite: General Chemistry with a C or better.

*AG240 THE HORTICULTURE INDUSTRY3

This course is designed to provide instruction and hands-on activities for the development of skills, competencies, and understanding needed for successful employment in the production, sales, and marketing aspects of the horticulture industry.

*AG241 COMMERCIAL PRODUCTIONS OF FRUITS & VEGETABLES......3

This course will cover the principles and practices of successful commercial fruit and vegetable production with an emphasis on environmentally friendly production techniques to maximize yield and quality. Topics covered will include crop growth requirements and growth patterns, alternative production techniques, harvesting, and storage.

*AG250 INTRODUCTION TO GENETIC ENGINEERING.....4

This course is designed to provide students with a background in Biotechnology laboratory techniques and practices. This class will demonstrate and teach common laboratory equipment and protocols involved with DNA restriction digestion and analysis, cloning, expression, sequencing, isolation, and amplification (PCR). The class will demonstrate the use of plasmids in cloning and express, along with RNA isolation, purification, and measurement by quantitative r-PCR. Prerequisites: General Biology or Principles of Biology, General Chemistry or Chemistry I, and Lab Methods in Agri-Biotech.

*AG255 PRECISION AG HARDWARE.....3

Students will gain a basic knowledge of precision agriculture high tech equipment and management strategies.

*AG256 PRECISION AG SOFTWARE3

This course will cover aspects of Global Positioning Systems (GPS), Geographic Information Systems (GIS), remote sensing, data acquisition, mapping, variable rate application, and the economics of precision agriculture software. Students will develop a fundamental understanding of precision agriculture software and how to effectively use data to create prescriptions.

*AG257 PRECISION AG MACHINE DATA MANAGEMENT..3

Students will learn how to collect, manage, and retrieve financial, physical, and spatial data from farm operations to support a farm's decision-making and reporting processes. This course will emphasize the use of financial, statistical and logical spreadsheet functions, GIS systems, record-keeping for fertilizer and pesticide usage and regulation, and specialized software applications, including integration of information from various sources and packages.

AG299 CDL: MAPS, LOG BOOKS, AND D.OT. REGULATIONS......1

This course is Phase I of the CDL and will provide the information necessary for the student to successfully take the CDL general knowledge, combination vehicle and air brake written tests. Upon passing these tests, which are administered by the State of Kansas, you will receive your CDP (Commercial Driving Permit) which allows the student to drive with the instructor.

AG300 COMMERCIAL DRIVER'S LICENSE1

This course is the beginning part of Phase 2 of the CDL and continues with class room training along with placing the student in the driver's seat of a tractor /trailer combination vehicle with air brakes preparing for the three part Driving Skills Examination. Topics covered will include: pre-trip inspections, basic vehicle control skills (Closed Course) and on-road driving. Must be taken concurrently with AG301.

This course is the second part of Phase 2 and is desgined to guide students to quickly and accurately read a commercial atlas and plan trips in accordance with D.O.T. rules and regulations. Students will learn hours of service regulations, how to maintain log books, and other record-keepong requirements. Other D.O.T. rules and regulations will be discussed with emphasis on recent changes. Must be taken concurrenly with AG300.

AG302 IN CITY COMMERCIAL DRIVER'S LICENSE DRIVING......1

Is designed to give simulated practice of driving in city situations. Done in a parking lot, the students will practice right and left turns, backing, and backing into a dock or elevator. A portion of the practice will be done after dark to practice in low light situations.

* A lab fee will be assessed for these courses.

ALLIED HEALTH

AH099 MEDICATION AIDE UPDATE

Will cover basic principles and skills essential for the administration, care and handling of medications which are for oral ingestion and for external application. Current topics such as biological affects of the geriatric patient, over medication, legal aspects, regulations, new drug classifications and reactions will be covered. Not applicable to any degree.

AH101 SPECIAL TOPICS IN HEALTH CARE.....1

Has been developed to acquaint mental health, educators, child care and health care professionals with significant family issues of the day. It is broken into four separate, yet interrelated sessions. Upon completing this seminar, participants will have the understanding to provide meaningful intervention in each of these problematic family components.

AH104 PAID NUTRITION ASSISTANT 1/2

Will provide training for individuals who are paid to feed residents of an adult care home following state guidelines and regulations.

SOCIOLOGICAL GERONTOLOGY MODULES

AH163 EMERGENCY MEDICAL TECHNICIAN 10

Is the emergency medical technician initial course of instruction required for persons involved in providing emergency care. It will include care of the patient prior to transport, control of the accident scene, preparation for transport, transport and care of the patient while en route to the hospital, transfer of a patient to a hospital emergency department, communications, reporting, record

keeping, and vehicle care. It will provide the participant with the preparation necessary for testing for certification and practice as an Emergency Medical Technician in the State of Kansas. This Emergency Medical Technician course meets the requirements of the Kansas Board of Emergency Medical Services as set forth in the Kansas Administrative Regulations.

AH181 BASIC LIFE SUPPORT.....1

This course is designed to provide healthcare providers with an overview of the cardiovascular and respiratory systems, a discussion of medical and environmental emergencies leading to the need for CPR, and an introduction to diagnose signs and triage, as well as insight into the structure and function of the emergency medical services system. Participants will be trained to: (1)know how to perform CPR in both in-and-out-of-hospital settings; (2) promptly recognize cardiac arrest; (3) give high-quality chest compressions; (4) deliver appropriate ventilations; (5) provide early use of an automated external defibrillator (AED), as part of a team and individually; and, (6) recognize and relieve choking. Adult, child, and infant rescue techniques will be covered. Upon successful completion of all American Heart Association standards, the student will receive affirmation at the Healthcare Provider level.

AH182 ADVANCED CARDIOVASCULAR LIFE SUPPORT...1

The Advanced Cardiovascular Life Support (ACLS) Provider Course is designed for healthcare providers who either direct or participate in the management of cardiopulmonary arrest or other cardiovascular emergencies with the goal of improving outcomes for adult patients with cardiac arrest and other cardiopulmonary emergencies through provider training. Through didactic instruction and active participation in simulated cases, the students will enhance their skills and clinical decision-making abilities for the diagnosis and treatment of cardiopulmonary arrest, acute arrhythmia, stroke, and acute coronary syndromes. Students are taught to use the following important concepts: Basic Life Support (BLS) Survey, high-quality cardiopulmonary resuscitation (CPR); ACLS Survey; ACLS algorithms; effective resuscitation team dynamics; and immediate post-cardiac arrest care. Prerequisite: AH181 Basic Life Support.

AH191 ADVANCED EMT 13

This course is designed for individuals interested in providing Advanced Emergency Medical Technician (AEMT) level care in the pre-hospital setting. The program will provide the participant with opportunities to gain information and skills necessary for certification and practice as an AEMT in Kansas, which includes intravenous therapy and medication administration. The National Registry of Emergency Medical Technicians (NREMT) and the Kansas Board of Emergency Medical Services have approved the curriculum for this certification, which addresses information and techniques currently considered the responsibility of the AEMT according to Kansas Education Standards. The program consists of didactic (lecture) instruction and practical skills training.

Pre-requisite: current EMT certification; and must be CPR/AED certified by the American Heart Association at the Health Care Provider level.

AH197 CERTIFIED NURSE AIDE5

Upon successful completion of the 90 Hour Certified Nurse Aide course, the student must take a state exam. Successful passing of the exam will result in the receipt of a C.N.A. license from the State of Kansas. Course delivery methods may be completed by face-to-face classroom sessions, (45 hours of classroom/45 hours of clinical), or hybrid. The hybrid delivery method requires the student to complete 45 hours classroom instruction via online and 45 hours clinical per the Kansas Department for Aging and Disability Services. The 90 Contact Hour Certified Nurse Aide Curriculum and Guidelines are fully implemented. (K.A.R. 26-50-10). This course is considered a Stand Alone Program.

AH198 MEDICATION AIDE5

Upon successful completion of the Certified Medication Aide course, the student must take a state exam. Successful passing of the state exam will result in the receipt of a Certified Medication Aide license from the State of Kansas. Course delivery methods may be completed by face-to-face classroom sessions, (50 hours of classroom/25 hours of clinical), or hybrid. The hybrid delivery method requires the student to complete 50 hours of instruction via online and 25 hours of clinical per the Kansas Department for Aging and Disability Services. The 75 Contact Hour Certified Medication Aide Curriculum and Guidelines are followed. For authorizing statute for Certified Medication Aides in the KS Nurse Practice Act, See: K.S.A. 65-1124 (1) at (www.ksbn.org). This course is considered a Stand Alone Program and available only to Certified Nurse Aides.

AH207 CERTIFIED NURSE AIDE REFRESHER1

The C.N.A. in Kansas is required to work at least eight hours every two years for the C.N.A. license to remain active. The C.N.A. Refresher Course is designed to offer inactive C.N.A.'s an opportunity to refresh their skills and obtain current information concerning the care of the elderly in long-term care. Students will discuss the nurse aide's responsibility in the current health care system and the importance of residence rights. The students will demonstrate safety measures, infection control procedures, personal care skills, measurement of vital signs, transfers, positioning, and turning. Students enrolled in the refresher course must show proof of certification as a Kansas C.N.A. by providing a copy of their card prior to the first class session. Upon completion of this course, the status of C.N.A. becomes "active" and the individual has the opportunity to work as a C.N.A. again.

AH211 INTRAVENOUS THERAPY FOR LPN'S......3

Prepares licensed practical nurses to perform activities as defined in K.A.R. 60-16-102, and according to rules and regulations set forth by the Kansas State Board of Nursing.

AH310 HOME HEALTH AIDE2

Is designed to prepare participants to become Certified Home Health Aides in Kansas utilizing the Kansas Department for Aging and Disability Services curriculum and guidelines.

CRIMINAL JUSTICE

AJ100 ▶ INTRODUCTION TO CRIMINAL JUSTICE......3

This course provides an introduction to the historical development and the internal and external issues of the various components of the criminal justice system including police, corrections, and the courts. The student will illustrate how these interrelated components result in the administration of justice today.

AJ112 SPECIAL TOPICS IN CRIMINAL JUSTICE3

An organized course offering the opportunity for intensive examination of specialized topics in criminal justice not normally or not often available as part of regular course offerings. Course involves lectures, readings and classroom discussion of selected topics. Special topics may be repeated for credit when topics vary. Specific topic will be indicated when offered.

AJ114 COMMUNITY POLICING3

This course is an introduction to law enforcement in the United States, focusing on many contradictions and paradoxes that American policing presents. This course will focus on the development of police from the mid-19th century to the present, the varied roles of police, field behavior, organization and management, and contemporary issues facing police departments today.

AJ118 INTRODUCTION TO CORRECTIONS3

Students will evaluate the historical development of the correctional system as well as the role of corrections in our criminal justice system and society. The course analyzes how offenders are supervised in facilities and within the community. The range of sanctions used historically and today are discussed and examined. Issues in corrections such as gender, race relations, ethics, addictions, death penalty, and juveniles, are explored. This course will also examine careers and the future of corrections.

AJ140 VICTIMOLOGY3

Criminal justice professionals, regardless of their specific role, will always come in contact with victims of crime. This course will introduce the crime victim as part of our larger society and as part of the criminal and civil justice system. Students will develop an understanding of the role of victimology as a social science; the psychological impact of crime on the victim; the victim's role in the criminal justice and civil system; the financial impact of the crime on the victim; the victim's rights in the criminal justice system and in society; and the future of criminal justice and social policy as they relate to victims. The course will examine specific areas of victimization such as: sexual assault, domestic violence, child maltreatment, elder abuse and homicide.

AJ145 AGENCY ADMINISTRATION3

This course conducts a practical analysis of modern administration theory and supervisory, management principles and their application to the unique operating problems of criminal justice organizations.

AJ158 LEGAL RESEARCH AND WRITING I3

Introduces the student to the methods of legal research used in the modern law office. Students focus on the use of traditional hard cover and pamphlet resource materials with additional work focusing on the expanding electronic medium including the Internet. Students will also explore the principles of technical writing as well as the particular styles of writing used in the legal profession.

This course examines the role of police in society and the application of key concepts to policing scenarios. Students identify, discuss and assess critical police practices and processes to include deployment, arrest procedures, search strategies, and other operational considerations.

AJ205 CRIMINOLOGY3

Is designed to introduce the student to the study of the origin and nature of the development of law and its impact on the behavior of society. It is a study of the conditions which might lead a person to act in ways which are deemed to be "incorrect or deviant behavior" by the society in which they are a part of. It also attempts to define the terms of, and then measure, deviant behavior through the analysis of available research information.

AJ206 → CRIMINAL LAW......3

The course examines the history, scope and nature of law. It focuses on the parties to a crime; classification of offenses; criminal acts and intent; the capacity to commit crime; and criminal defenses. It will cover the elements of misdemeanor and felony crimes.

AJ207 CRIMINAL PROCEDURES......3

This course introduces basic court system procedures and the jurisdiction of the courts. It also focuses on the constitutional and other legal requirements that affect law enforcement practices and procedures. Specific topics include confessions and interrogations, identification procedures, arrest, search and seizure, and admissibility of evidence.

AJ209 JUVENILE DELINQUENCY AND JUSTICE.....3

This course examines the historical precedents and philosophical reasons for treating juveniles differently from adults. It reviews empirical evidence about child development that can illuminate the reasons for their special status within the system. It will study the major theories that have been proposed as explanations of delinquent behavior. The course will also provide a detailed

overview of the juvenile justice system, from its beginnings to the current state of the institution.

*AJ210 CRIMINAL INVESTIGATION.....3

This course explores issues including the effective interview and interrogation techniques, crime scene management and lab processes, crime scene documentation methods, case preparation and court presentation.

This course focuses on the unique types of writing required in a criminal justice career. Students are required to gather pertinent information and then record that information by writing a variety of report narratives representative of those prepared by individuals working in a profession within the criminal justice system.

AJ212 CRISIS INTERVENTION3

This course is an overview of crisis intervention for criminal justice personnel focusing on an understanding of the immediate needs of a person in crisis and on crisis intervention techniques in various situations. This course is intended to familiarize the student with the strategies involved in crisis intervention work and the wide range of issues addressed. The strategies of crisis intervention will be discussed in their own right and within the context of such areas as: suicide and personal loss/bereavement as well as other crisis of lethality; post-traumatic stress disorder and the catastrophic events that are related including a focus on children and PTSD, and sexual assault and domestic violence (including both adult and child victims and the perpetrators of these crimes) as well as the current issue of school-based violence and recent information pertaining to disaster events. Perspectives that relate specifically to special populations and crisis work, including persons with substance disorders, and topics related to the impact (hazards and rewards) of crisis intervention on the criminal justice intervener.

AJ220 COOPERATIVE EDUCATION INTERNSHIP...... 1-6 See CA220

AJ221 COMPUTER AND HIGH TECHNOLOGY CRIMES....3

This course will examine those crimes which involve the use of computers as well as those perpetrated against computers. Topics will include the various state, federal and international laws, investigative measures and techniques, and preventive measures utilized to provide a secure environment for computer hardware and software. The course will also examine developing trends in cybercrime and cyberlaw.

AJ225 ETHICS IN CRIMINAL JUSTICE......3

This course explores the major components involved in the study of ethics, particularly as it applies to the field of criminal justice. Focus is placed on the code of conduct and ethics of the criminal justice profession and the standards held to in their professional

role. The aim of the course is to produce professionals who are not only critical thinkers, but who have the skills necessary to pursue sound ethics in their day-to-day decisions and activities.

AJ251 CRIME SCENE INVESTIGATIONS4

This course is designed to provide students with the basic theoretical and philosophical understanding of the investigatory process. This course will examine techniques and methods of crime scene investigation such as: fundamentals of preliminary investigations, identification, collection of evidence, and fingerprinting. This course will provide students with a general introduction to the mechanics of crime scene investigation and its role in the criminal justice process.

AJ299 CAPSTONE IN CRIMINAL JUSTICE.....3

This course is the culmination of the criminal justice student's academic experience. It serves to synthesize the knowledge gained from each course taken within the criminal justice curriculum and better prepare the graduate to continue on to upper-division studies in the discipline or for entry-level career positions in the criminal justice system. Prerequisite: Introduction to Criminal Justice.

ART

AR100 → ART APPRECIATION.....3

Art Appreciation is a basic level course. The course is a study and appreciation of art and its development through the various periods and movements of man's existence. The course brings the student to a better understanding of art today, its past influences and its current significance.

*AR110 CERAMICS I +......3

Ceramics I is a beginning course covering the various techniques and forms of creating a ceramic piece, both hand built and thrown. It includes exploration of glazing and decorative techniques, but the emphasis is on bringing one's own personal concepts to the form and craftsmanship. The four and one-half hour per week class is considered both lecture and lab.

*AR111 CERAMICS II +3

Ceramics II is a continuation of Ceramics I with greater emphasis on student experimentation and development of individual style. The four and one-half hour per week class is considered both lecture and lab.

*AR112 CERAMICS III +3

Ceramics III is a continuation of Ceramics II with greater emphasis on student experimentation and development of individual style. The four and one-half hour per week class is considered both lecture and lab.

*AR120 DESIGN I +......3

Design I is a basic level course. This course introduces the basic concepts of design essential to working in the field of graphic design or visual communications. This class is beneficial to students in art, architecture, education, child care and interior design. It is structured around the basic organization of visual communication. The students will have hands on experience dealing with the elements and principles of design and will work with two-dimensional organization on both manual and computer-aided design projects. The four and one-half hour per week class is considered both lecture and lab.

*AR121 GRAPHIC DESIGN I +......3

In Graphic Design I, students will explore the creation and manipulation of visual content using basic design concepts and industry standard computer software. Students will learn to generate hardcopy output using laser and photo quality ink-jet printers. Students will become familiar with the latest practices in the field. Extensive hands-on work with the computer will enable the student to extend their design skills and computer software expertise. The four and one-half hour per week class is considered both lecture and lab. Prerequisite: Graphic Software Applications and Design I or Two-Dimensional Design, or with instructor permission.

*AR122 GRAPHIC DESIGN II +3

Graphic Desing II allows the student visual designer and artist to work with computer hardware and software fundamental for the visual designer and artist. It provides the basic knowledge necessary to operate Macintosh computers and to use software applications in design projects related to product and promotional purposes. This course integrates the graphic design process with the computer's capabilities. The student learns to take a sketch idea and develop it through digital thumbnails, laser proofs, and color output comprehensives as well as the creation and implementation of multimedia and web content. The four and one-half hour per week class is considered both lecture and lab. Prerequisite: Graphic Software Applications, Design I or Two-Dimensional Design, and Graphic Design I, or with instructor approval.

*AR126 TWO-DIMENSIONAL ILLUSTRATION +.....3

Two-Dimensional Illustration is an introductory drawing course where students will work on techniques of perception and graphic composition using a variety of art materials. This is a hands-on class and begins with basic skills in perception and development of technique with various subject matter and drawing medias. The four and one-half hour class is considered both lecture and lab.

*AR129 INTRODUCTION TO DIGITAL PHOTOGRAPHY +......3

Introduction to Digital Photography is a course of study to develop an understanding of basic photographic techniques and computer assisted image manipulation. This course will include, but not

limited to, the following topics; basic camera functions, basic digital image processing, visualization and design skills, and digital manipulation techniques needed in today's market place. Students will have opportunities to create portfolio pieces. The four and one-half hour class is considered both lecture and lab.

*AR130 DRAWING I +.....3

Drawing I is an introductory drawing course for the student with limited art background. Students work on techniques of perception and graphic composition, using a variety of art materials. This is a hands-on class and begins with basic skills in perception and development of technique with various subject matter and drawing medias. The four and one-half hour class is considered both lecture and lab.

*AR131 DRAWING II +.....3

Drawing II is a continuation of the Drawing I course. Students will continue to work on techniques of perception and graphic composition, as well as working with a variety of art materials. This is a hands-on class that will help the students enhance their personal vision and style by increasing their knowledge of perception and technique development with various subject matter and drawing medias. The four and one-half hour class is considered both lecture and lab.

*AR140 PAINTING I +.....3

Painting I is an introductory painting course with a concentration on painting techniques and color mixing. Emphasis is placed on individual creativity and experimentation. This is a hands-on class and covers the fundamentals of painting, from color theory, techniques of color application, color modeling and surface separation and definition. The four and one-half hour class is considered both lecture and lab.

*AR141 PAINTING II +......3

Painting II is a continuation of Painting I focusing on individual experimentation in traditional, contemporary, and experimental techniques. The four and one-half hour class is considered both lecture and lab.

*AR145 WATERCOLOR +......3

Watercolor is a hands-on class dealing with water-based paint media. The student will explore the many uses and applications of this media. The associations of color in illustration will be applied through various media techniques to master balance through contrast, property of light, shadows, simultaneous contrast and tints. The applications will be achieved through the use of color theory, color themes and the various painting techniques associated with watercolor. The four and one-half hour per week class is considered both lecture and lab.

*AR171 THREE-DIMENSIONAL DESIGN +3

Three-Dimensional Design is a basic level course beneficial to students in fine arts, commercial art, architecture, education, child

care and interior design. It is structured around the basic organization of visual communication. The students will have hands on experiences dealing with the elements and principles of three-dimensional design and will have opportunities to create portfolio pieces. The four and one-half hour class is considered both lecture and lab.

AR220 COOPERATIVE EDUCATION INTERNSHIP...... 1-6 See CA220

- * A lab fee will be assessed for these courses.
- + These courses are considered lab courses.

BUSINESS

BE100 → INTRODUCTION TO BUSINESS......3

This course is an introduction to a broad range of terminology and topics useful to business management. Terminology necessary to understand business literature is emphasized. The course will provide an overall picture of business operations, as we cover different types of economic systems, global trade, business entrepreneurship, e-business, managerial decision-making, techniques for increasing employee motivation, packing, pricing & distributing products, the relationship between management and unions, business ethics, and much more. This course is designed to develop student responsibility for learning, thinking, and questioning while using business as the model.

BE115 BUSINESS MATHEMATICS.....3

Is a course starting with the basic math concepts and moving to more complex mathematical concepts. The course will not only deal with theory but will concentrate on applications of using those concepts in solving problems dealing with personal finance, business finance, and business analysis.

BE121 BUSINESS COMMUNICATIONS3

Provides instruction on the role of communication in the business environment and identifies the most effective methods for creating, sending, and receiving messages. In addition, students should be able to utilize effective oral and written communication skills in business; write and evaluate business documents, including letters, memos, and reports using the principles of correct style, organization and format; and prepare an effective oral business presentation.

BE122 → MEDICAL OFFICE VOCABULARY2

This course presents a study of basic medical terminology. Prefixes, suffixes, word roots, combining forms, special endings, plural forms, abbreviations, and symbols are included in the content. A programmed learning, word building systems approach is used to learn word parts for constructing or analyzing new

terms. Emphasis is placed on spelling, definition, usage, and pronunciation.

BE124 LEGAL OFFICE VOCABULARY2

Is designed to give students a working vocabulary of legal terms necessary for office success. The material is divided into modules, with content introduced at a basic level, progressing, by specialization, to more difficult matters.

BE139 BASIC PERSONAL FINANCE.....1

This course focuses on basic skills in personal financial management with an emphasis on basic money management including budgeting, controlling debt, bank accounts, borrowing, credit cards, investments, and retirement. Practical knowledge and application of these areas are stressed.

BE152 SALESMANSHIP......3

The student will be provided examples of selling in a global environment, information about the technology available to every salesperson, and most importantly, the ABC's (the fundamentals) of relationship selling. The course is a vehicle by which the student is given ample materials to construct his/her own sales presentation. Covering the basic foundations for understanding the concepts and practices of selling in a practical, straight-forward, and effective manner, the course provides the student a guide to use in preparing sales presentations and role-playing exercises.

BE153 → PERSONAL FINANCE......3

A personal financial management course that emphasizes time value of money, budgeting, borrowing, taxes, insurance, consumer credit, risk management, investments, retirement, and estate planning. Practical knowledge and application of these areas are stressed.

BE154 BUSINESS LAW......3

Few subjects are as dramatic and challenging as the law. Because laws grow from human conflict, lawsuits are often emotional, complex, and costly. Despite these costs, more and more business and personal disputes are being settled in court every day. Ours is a "litigious society." Knowing more about the law can help students avoid legal conflicts in their professional and personal lives. If they cannot resolve a dispute, a background in the law will help them preserve their rights.

BE155 → MARKETING3

Is essential to the operation of any business firm or public service organization. The successful enterprise in today's changing and competitive world is increasingly characterized by its understanding of the many facets of marketing and by its ability to deliver goods and services to the market more efficiently than its competitors. This course is designed to introduce students to the basic concepts, practices, and techniques of marketing.

BE160 BUSINESS ACCOUNTING......3

Students receive instruction in the fundamentals of accounting from recording business transactions including financial statement preparation. Emphasis is on the fundamentals of double entry accounting and the basic accounting cycle for service and merchandising enterprises.

BE161 → ACCOUNTING I3

An introduction to the financial accounting fundamentals. This course focuses on analyzing transactions, the use of various journals and ledgers, measuring the value of assets and liabilities, calculation of the different methods of depreciation, preparation of financial statement as per U.S. GAAP along with an introduction of IFRS for service and merchandising enterprises.

BE162 → ACCOUNTING II......3

A continuation of BE161 Accounting I with greater emphasis placed on the interpretation and use of accounting data. The course focuses on accounts, records, and financial statements specific to partnerships, corporations, and manufacturing companies. Fair Value is used where applicable. Managerial Accounting is introduced in this course. Prerequisite: Accounting I with grade of C or higher.

BE163 FINANCIAL ACCOUNTING4

A comprehensive introduction of financial accounting fundamentals. This course focuses on the accounting cycle, preparation and analysis of financial statements as per U.S. GAAP, the valuation of assets and liabilities, an introduction of fair value accounting, an introduction of IFRS, and the quality of business decisions in an ethical context.

BE164 → MANAGERIAL ACCOUNTING3

An introduction of managerial accounting fundamentals. This course focuses on applying the management accounting techniques of planning and controlling operations including: master and capital budgets, variance analysis, cost-volume-profit analysis, cost allocation, and evaluating the ethical dimensions of managerial accounting. Pre-requisite: Final grade of a C or better in BE162 Accounting II or BE163 Financial Accounting.

BE165 COMPUTERIZED ACCOUNTING......3

Provides a hands-on approach to learning how computerized integrated accounting systems function. Provided is an overview for using the software QuickBooks Pro and developing the process for recording transactions involving sales, receivables, purchases, payables, general accounting, end-of-period procedures, payroll, and computerization of a manual accounting system. Prerequisite: High School Accounting, Business Accounting, or higher.

BE166 PAYROLL ACCOUNTING......3

An in-depth look at the many aspects of preparing, distributing, and recording payroll. Included in this course are issues regarding reporting, deductions, Federal forms, deposits, regulations, and government laws related to payroll. Prerequisite: High School Accounting, Business Accounting or higher (may be enrolled currently).

BE170 BUSINESS STATISTICS3

Is an introduction to descriptive and inferential statistics. Included are the uses of measures of central tendency and dispersion, probability, estimation and hypothesis testing, analysis of variance, and correlation. Recommended Prerequisite: High school algebra, Intermediate Algebra, or Survey of Math with a C or better or appropriate Accuplacer/ACT score.

BE172 CUSTOMER SERVICE......3

This course provides how-to topics for the customer service professional and includes the concepts and skills needed for success in business careers, including listening techniques, verbal and nonverbal communication, and use of technology. The course will focus on the needs and requirements of internal and external customers, the enhancement of customer relationships, the significance of market research with respect to the customer, the design and redesign of customer service strategies, and differentiate between internal and external customers in a service and manufacturing organization. Emphasis is given to dealing with customer service problems and how to handle conflicts and stress.

BE185 HUMAN RESOURCE MANAGEMENT3

An examination of the employment process, international challenges, current and recurring issues. Emphasis on evaluation, interviewing, training, and labor relations

BE188 PRINCIPLES OF ADVERTISING3

Students will learn the fundamental role of advertising in the communication process, how it works as an element of the marketing process, basic terminology, the functions and effects of advertising in business, the influence of economics on the evolution of advertising, and advertising's overall impact on the society in which it operates. Emphasis is placed on analyzing current examples of advertising along with real-world experiences in the advertising industry.

BE210 ► LEADERSHIP DEVELOPMENT......3

Is designed to prepare students to assume increasingly responsible leadership roles in their personal, professional and academic lives. The course focuses not only on significant theories of leadership and their applicability to leaders of the past and present, but also includes substantial hands-on experiential learning opportunities which puts leadership into action.

BE220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220

CAREER CENTER

CA192 DYNAMICS OF CAREER PLANNING 1-2

Is designed to help people explore their interests, abilities, strengths, weaknesses, likes and dislikes and relate them to the

world of work. The class participants will learn techniques for exploring the world of work on the Internet and develop an academic plan which reflects their career decision.

CA220 COOPERATIVE EDUCATION INTERNSHIP...... 1-6

Cooperative Education Internships enhance the academic background of the student with a curriculum related on-the-job work experience. These experiences may be completed by working while attending school or by working during the summer. College personnel will assist in matching employers and students in this program which is committed to the growth of the student. Cooperative Education is a valued partnership between employers, students, and educators. Students must 1) already be enrolled in at least 12 credit hours at CCCC or is in the process of completing coursework; 2) employed or work with college personnel to find a placement related to the curriculum they are enrolled in; 3) complete the necessary enrollment process which includes paying the tuition to be able to earn college credits; and 4) be a U.S. citizen or prove immigration eligibility to accept a work assignment.

CA221 JOB SEARCH1

Is to make the student aware of the skills needed for entry into the competitive world of work. It will provide valuable insight into one's strengths and weaknesses while providing practice in preparing resume's, cover letters and standard application forms. In addition, the student will learn techniques for presenting himself/herself in a confident, professional manner at the employment interview and how to appropriately respond to a wide range of possible questions at that interview.

COMMERCIAL DRIVERS LICENSE

*TD250 CDL CLASS A TRUCK DRIVING TRAINING I......8

This is the first course of a concurrent two-course program where students will gain the knowledge and practical experience necessary to be a driver of a commercial tractor-trailer unit and begin work with an over-the-road trucking firm. Students will take written and driving tests at the Kansas Department of Motor Vehicles and obtain their Class A Commercial Driver's License. Additional emphasis will be placed on driver's daily log and mileage records, defensive driving, vehicle inspections, and contemporary industry trends. Prerequisite: Students must be a 18 years old for intrastate (within the state) driving. To qualify for operation in interstate commerce, a driver must be at least 21 years old and must meet federal and state physical and health requirements. In addition, students must not be using narcotics or other habit forming drugs.

*TD251 CDL CLASS A TRUCK DRIVING TRAINING II7

This is the second course of a concurrent two-course program where students will gain knowledge and practical experience necessary to be a driver of a commercial tractor-trailer unit and begin work with an over-the-road trucking firm. Students will practice driving a manual-shift combination tractor-trailer unit in rural, city, and interstate settings during daylight and dark, and in as

many weather conditions as the season allows. Additional emphasis will be placed on safety, work ethic, driver health and wellness, and federal motor carrier regulations, including Motor Carrier Safety Improvement Act and Department of Transportation regulations. Prerequisite: Students must be a 18 years old for intrastate (within the state) driving. To qualify for operation in interstate commerce, a driver must be at least 21 years old and must meet federal and state physical and health requirements. In addition, students must not be using narcotics or other habit forming drugs.

*TD252 DEFENSIVE DRIVING FOR THE PROFESSIONAL TRUCK DRIVER......1

During this course, students will complete The National Safety Council's Defensive Driving Course for the Professional Truck Driver and will receive a certificate of completion to provide to employers and insurers. Students will also be instructed by an industry representative on the topic of railroad safety according to the Operation Lifesaver curriculum. Students will draw upon their driving experiences during the certificate program. Students will plan a coast-to-coast trip, utilizing the skills they have learned in the areas of defensive driving, map reading, route selection, hours of service, and log book recordkeeping. Prerequisite: Students must be a 18 years old for intrastate (within the state) driving. To qualify for operation in interstate commerce, a driver must be at least 21 years old and must meet federal and state physical and health requirements. In addition, students must not be using narcotics or other habit forming drugs. Must be currently enrolled in or previously passed TD251.

* A lab fee will be assessed for these courses.

COMMUNICATIONS

CMO67 BASIC ESL WORKSHOP3

Basic ESL Workshop is an applied course for the development of reading, writing, listening, and speaking skills for low beginning (Level 1) English Language Learners (ELLs) whose native language is not English. The student will use online textbook support material and isntructor guided activities to develop functional and academic skills necessary to engage in college-level courses in English. Co-requisite: To create an immersive language experience, students enrolled in the Basic ESL Workshop are co-enrolled in Basic ESL I.

CM069 BASIC ESL I5

Basic ESL is designed for low beginning (Level 1) English Language Learners (ELLs) whose native language is not English. Class will provide skills needed to use English successfully and appropriately in a variety of community, workplace and/or academic settings. Instructional activities will focus on four target areas: listening, speaking, reading, and writing. The course helps students develop their grammar and writing skills in preparation for subsequent English courses.

CM070 BASIC ESL II.....5

Basic ESL II is designed for high beginning (Level 2) English Language Learners (ELLs) whose native language is not English. Class will provide skills needed to use English successfully and appropriately in a variety of community, workplace and/or academic settings. Instructional activities will focus on four target areas: listening, speaking, reading, and writing. The course helps students develop their grammar and writing skills in preparation for subsequent English courses.

CMO71 ENGLISH AS SECOND LANGUAGE I3

Through a variety of learning activities focused on improving reading and writing skills, students will improve their vocabulary and use of English structure. Prerequisite: appropriate Accuplacer composite ESL Reading, ESL Listening, and ESL Grammar Usage scores.

CMO72 ENGLISH AS SECOND LANGUAGE II......3

The second part of a two-semester developmental sequence in ESL instruction, this course provides a variety of learning activities to improve reading and vocabulary skills through writing activities. Prerequisite: appropriate Accuplacer composite ESL Reading, ESL Listening, and ESL Grammar Usage scores.

CM079 PEER TUTOR TRAINING1

This course prepares students to be peer tutors. The students will learn how to adjust to different learning styles, incorporate brain-based learning, and apply study strategies to specific courses.

CMO87 READING COMPREHENSION......1-3

Complex materials are no longer a mystery as critical thinking about main ideas and details, summarization, and identification of patterns of organization are used to comprehend text. Reading and writing are blended to build strong academic skills.

*CM094 COMPOSITION WORKSHOP......3

Composition Workshop is a developmental course designed for the student who needs individualized instruction in the clear and correct usage of English grammar, extended practice with writing form and purpose, and additional support in the development of successful writing habits. Co-requisite: Because Composition Workshop focuses on building writing skills, Composition Workshop should be paired with an English Composition I (CM 101) course at the time of enrollment. Students withdrawing from English Composition I (CM 101) will need instructor's permission to remain in Composition Workshop. Prerequisite: Appropriate ACT Accuplacer writing score, an appropriate writing score on the college-administered writing sample, or a C or better in Transitional English. (This course, or derivations of this course, may be offered as part of a pilot study).

CM098 TRANSITIONAL ENGLISH3

Transitional English helps students develop their reading and writing skills in preparation for English Comp I and English Comp II courses. This class includes various writing assignments, grammar review, and critical reading. The class structure consists of lecture, discussions, class workshops, individual conferences, small group work, and in-class writing. Students may also be required to work assignments in the Student Success Center.

CM101 → ENGLISH COMPOSITION I......3

English Composition I provides instruction in writing with emphasis on grammatical correctness, acceptable usage, effective organization, and expression of ideas. Assigned reading, research and expository writing are required. Prerequisites: Appropriate ACT/Accuplacer score or Transitional English (CM098) with a C or better and enrollment in co-requisite, Composition Workshop (CM094). Co-requisite: Composition Workshop (CM094) determined by appropriate ACT/Accuplacer score.

CM102 → ENGLISH COMPOSITION II3

English Composition II is a continuation of English Composition I with an emphasis in writing and rewriting. Assigned readings, argument and persuasion, literary analysis (poetry, fiction, drama), and research are included. Prerequisite: English Composition I.

CM106 → CREATIVE WRITING I......3

Creative Writing I is designed to present opportunities for the writing and rewriting of short story, poetry, drama, and other genres. It is a time for students to immerse themselves in the discipline of writing and become more conscious as writers - trying other genres, setting writing schedules, trying out advice for revision, discovering what makes them tick as a writer. Recommended preparatory course: English Composition I.

CM107 CREATIVE WRITING II......3

Creative Writing II is designed to stimulate creativity and encourage students to seek answers and interpretations beyond the obvious - to develop insight and creative vision. It goes beyond the requirements of Creative Writing I, however, in that students work on one lengthy work or a series of connected short works, and consult with the instructor in and outside class in addition to the regular work of the class. Prerequisite: Creative Writing I.

CM115 ▶ PUBLIC SPEAKING.....3

Public Speaking is an elementary course in the study and practice of the basic principles of speech and interpersonal communication with emphasis on critical thinking, the creative and intelligent selection of material, organization and oral presentation. Students taking this class in an online format will be required to record and submit speeches electronically. All speeches must be recorded in front of a live audience which the students must arrange. Minimum audience numbers vary by speech.

CM120 SURVEY OF TECHNICAL WRITING......3

Survey of Technical Writing is an introduction to the process of technical and business writing. Topics include conducting audience and needs analysis; organizing and writing clear, precise, grammatically correct workplace prose; and producing a variety of routine professional reports and correspondence. Focused projects will include applied business/industry or technical degree exercises. Prerequisite: Appropriate ACT/Accuplacer score or Transitional English.

CM121 → INTRODUCTION TO LITERATURE......3

Introduction to Literature is a survey of literature from Britain, the United States and other countries emphasizing major poets, fiction writers and playwrights plus general literary analysis, including the literary devices used in these genres. Prerequisite: English Composition I. Recommended preparatory course: English Composition II.

CM122 AMERICAN LITERATURE I......3

American Literature I is a historical survey of the literature of early Americans, emphasizing major authors, literary trends, historical events and significant ideas from early Native American works through the Transcendental Movement of the 1850's. Prerequisite: English Composition I. Recommended preparatory course: English Composition II.

CM123 → AMERICAN LITERATURE II3

American Literature II is a study of American literature from the Civil War period through the trends of realism, naturalism, and on into the ideas and literary trends of modern and contemporary America. Prerequisite: English Composition I. Recommended Preparatory Courses: English Composition II.

The course emphasizes the study of the literary, cultural, and human significance of select works of world literature. The class promotes an understanding of the works in their cultural/historical contexts and the enduring human values which unite the different literary traditions. Prerequisite: English Composition I. Recommended preparatory courses: English Composition II.

CM125 → LITERATURE FOR CHILDREN3

Literature for Children is a survey of literature for children particularly in the elementary grades. It gives an opportunity to read and evaluate many books, stories and poems. Also promoted are resources and practical applications for reading aloud in the classroom, as well as igniting a love for reading in the mind of the individual child. For teachers in elementary education. Prerequisite: English Composition I. Recommended preparatory course: English Composition II.

CM127 THE SHORT STORY......3

The Short Story is a survey of short stories from both American and selected world authors. Selected short stories from different eras are studied. Assigned readings, various themes, and literary analysis are included. Prerequisite: English Composition I. Recommended preparatory course: English Composition II

CM129 MEDIA LAW AND ETHICS.....3

Media Law and Ethics is designed to instill a greater appreciation for freedom of expression, provide an overview of the diverse field of communications law, and impart a functional understanding of the legal rules and principles that are generally relevant to journalism and mass communication professionals in the U.S.

CM136 MASS COMMUNICATIONS SOFTWARE3

An introduction to, and studio practice in, the area of visual communication. Emphasis is placed on mastery of software applications used in the communication graphics industry. Emphasis will be given to concepts relating to the organization of how software applications can support design concepts, color usage, image and concept development, and creative problem solving.

CM137 INTRODUCTION TO MULTIMEDIA COMMUNICATIONS......3

This course is an introduction to reporting and storytelling through a combination of mass communication mediums including radio, print, web, visual, and social media. Students will apply the concept of "media convergence", the synthesis of multiple modes of media, to communicate dynamic and coherent messages. This course offers extensive hands-on experience using multimedia tools, terminology, and techniques to develop multimedia projects. Recommended Prerequisite: CM136 Mass Communications Software.

CM138 BROADCAST NEWS3

Broadcast News is an extension of Basic Media Writing and Intro to Multimedia Communications that emphasizes techniques involved in gathering, writing, and presenting the news specifically for radio, video, and web broadcasts. Students will cover the events and prepare the story for both live and pre-recorded broadcasts. The course will also include instruction for feature story presentation, interviews, and issues that confront the responsible journalist.

CM139 SPORTS BROADCASTING......3

Sports Broadcasting provides students a more in-depth look at the mechanics and preparation aspects involved in the coverage of a sporting event. Students will operate the equipment, prepare the information, and do the actual "on-air" broadcasts of sporting events. Emphasis will also be placed on sports reports, coach and athlete interviews, broadcast equipment terminology, and play-by-play announcing.

CM140 → THEATRE APPRECIATION3

Theatre Apreciation challenges students to interpret, criticize, and appreciate roles theatre plays in society through positive comparisons to our modern "theatre of availability" - television and film.

CM141 FINTRODUCTION TO ACTING3

Introduction to Acting offers majors and non-majors the fundamentals of acting in daily life and as a profession. Students should be able to connect acting experiences found in the lives of ordinary people with those crafted for theatrical characterization. Students explore the procss of acting from critical thinking and analysis to public presentation.

CM142 ACTING II3

Acting II examines the evolution of actor training towards a holistic, sustainable, and healthy acting practice. This class explores major approaches to the actor's process of analysis and style. Students will investigate classical and contemporary training modalities, and the role played by voice and movement.

CM143 ▶ PLAY PRODUCTION3

Play Production is a lecture-lab course with emphasis on acting in dramatic productions under performance conditions. Lectures and practice in the processes of interpretation and techniques of theatrical expression. Course culminates in a performance for public viewing.

CM146 → PLAY PRODUCTION II.....3

Play Production II, a continuation of Play Production, is a lecturelab with emphasis on direct experience in play production, either as a performer, an assistant director, stage manager, or in technical support capacity.

CM148 AMERICAN CINEMA APPRECIATION.....3

American Cinema Appreciation is a survey of the American film industry as an art form, as a business, and as a system of representation and communication. The course further explores how Hollywood films work technically, aesthetically, and culturally to reinforce and challenge America's national self image.

Digital Magazine Production: Storytelling is the content component of the digital magazine project, published annually in April, which documents a year in the life of Cloud County Community College. This class requires students to use multiple modes and genres of storytelling to meet the needs of a specific audience in a real-time project. Students will cover life at Cloud from multiple perspectives using traditional print, visual, audio, and video formats.

CM156 DIGITAL MAGAZINE PRODUCTION: DESIGN AND STYLE3

Digital Magazine Production: Design and Style is the design component of the digital magazine project, published annually in April, which documents a year in the life of Cloud County Community College. This class focuses on the foundation of the project including principles of design and photography, the creation of a style and layout manual for the project, and the basics of storytelling in print, visual, audio, and video formats.

CM157 MASS MEDIA PRODUCTION I......3

This course is a hands-on, in-depth study of how media conventions and content interact. In this applied production course, students will use the principles of convergent media to report school, community, and national news, sports, and lifestyle stories to T-Bird News as well as other real-world industry outlets. Students will work hands-on, discovering, developing, composing, editing, and publishing a story. Students will be required to produce and publish each story using a variety of media including print, radio, video, and web.

CM158 MASS MEDIA PRODUCTION II3

This course emphasizes a multi-disciplinary and multimedia approach to business-client relationships. Students will prepare a stategic communication campaign on behalf of a local client. It will include the production of material in a variety of mediums including print, radio, video, and web for use by the client. These materials, in turn, may be used by the students as they develop their professional portfolios. This class is rooted in critical thinking, research, multimedia production, and problem solving as well as professionalism and strong communiction skills.

CM220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220.

CM240 → INTERPERSONAL COMMUNICATIONS3

This course is a study of dyadic communication within interpersonal relationships between friends, family, fellow students, romantic partners, supervisors, and colleagues in the workplace. Emphasis is placed on the role of healthy and meaningful communication in establishing, building, maintaining, and sometimes refashioning personal and/or professional interpersonal relationships. Course content stresses how to become a more effective and competent communicator by exploring personal communication goals, analyzing communication barriers, identifying relational breakdowns in communication, and addressing conflict scenarios in order to deepen a student's understanding of the communication process and improve communication skills.

* A lab fee will be assessed for these courses.

COMPUTER SCIENCE

CS102 PERSONAL COMPUTING3

Designed for individuals to become familiar with microcomputers and their operations. An introduction to the Windows environment will be discussed. Microsoft software will be used to apply this knowledge in the use of word processing, data-base, electronic spreadsheet, and data communications technology for both home and business use.

CS104 INTRODUCTION TO WEB SITE DESIGN......3

Intended as an introductory course on creating Web pages. The objectives of this course are: to teach the fundamentals of developing Web pages using HTML; to acquaint students with the XHTML guidelines; to show students how to create Web pages suitable for course work, professional purposes, and personal use; to expose students to common Web page formats and functions; and to promote curiosity and independent exploration of World Wide Web resources. Prerequisite: Knowledge of computer software and Windows operating systems.

CS107 GRAPHIC SOFTWARE APPLICATIONS......3

Introduction to, and studio practice in, the area of visual communication. Emphasis is placed on mastery of software applications used in the communication graphics industry. Emphasis will be given to concepts relating to the organization of how software applications can support design concepts, color usage, image and concept development, and creative problem solving.

CS108 ► COMPUTER APPLICATIONS......3

An introductory computer course designed for individuals to become familiar with computers and their operations. An integrated software program will be used to apply this knowledge in word processing, database, and electronic spreadsheet technology for both home and business use.

CS140 INTRODUCTION TO ROBOTICS......3

Introduction to Robotics students will be introduced to many facets of robotics and microcontrollers. This course will cover basic principles of open source software use and development. Class topics will cover components of a micro controlled circuit, terminology used within both the software and development of micro controller prototyping boards and programs.

CS141 INTRODUCTION TO ADDITIVE MANUFACTURING (3D PRINTING)......3

Introduction to Additive Manufacturing, or 3D Printing as it is more comonly called, is a revolution in the modern era. This course will cover the basics of the history of 3D Printing, how Open Source communities have advanced the technology, and how to use the hardware and software to produce many prototype devices or products. The course will also explore the limitations of 3D Printing and what the future holds for the discovery of new 3D printing applications.

CS145 INTRODUCTION TO CAD......3

Students in this Autodesk Fusion 360 course will be introduced to many facets of Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), Computer Aided Engineering (CAE), and 3D Printing. This course will cover the fundamentals of how to use these design tools to connect your entire product development process into one cloud-based platform.

CS155 NETWORKING AND COMPUTER TECHNOLOGY...3

Introduces the student to the networking field. Focuses on network terminology and protocols, local-area networks (LANs), wide-area networks(WANs), Open System Interconnection (OSI) model, cabling, cabling tools, switches, routers, Ethernet, Internet Protocol (IP) addressing, and network standards. The course will reinforce lecture and study from the text with laboratory activities through a simulated networking program called LabSim $^{\mbox{\tiny TM}}$ Online for Network+.

CS220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220.

ECONOMICS

EC101 ▶ PRINCIPLES OF MACROECONOMICS3

Presents a macroeconomic approach in the introduction of the concepts of scarcity, national income and monetary analysis, the economic role of government, brief history, and economic growth.

EC102 → PRINCIPLES OF MICROECONOMICS3

Is concerned with microeconomic approach to the economics of the business firms and the market structures for the product and resource market allocation. Supply and demand will be studied in some detail, plus cost-benefit analysis and some domestic and international problems.

EC220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220.

EDUCATION

ED100 ▶ INTRODUCTION TO EDUCATION......3

An introductory course for students considering a career in professional education. The course includes historical, philosophical, sociological and learning developments within the education profession, professional needs and demands and requirements of professional education programs. Prerequisite: at least a 2.5 GPA in a minimum of 12 General Education hours accreditable to a university teacher education program; simultaneous classroom experience (ED101 or a practicum connected with another course).

ED101 INTRODUCTION TO EDUCATION PRACTICUM 1-2

The practicum is designed to provide aspiring education majors an opportunity to observe and interact with teachers and students

in an elementary and secondary setting. Opportunities to evaluate the total spectrum of education will be offered through direct observation. Prerequisite: at least a 2.5 GPA in a minimum of 12 General Education hours accreditable to a university teacher education program; proof of liability insurance. The student must be dual enrolled in ED100 Introduction to Education.

ED114 ART IN THE ELEMENTARY CLASSROOM......3

Art methods, materials and philosophy of children's art at different grade levels. This is considered a lab class.

ED118 DIVERSE LEARNERS......3

There are many ways that students differ from each other in academic situations. Understanding the implication of differences in abilities, disabilities, cultural backgrounds, religious backgrounds, psychological disorders, and first languages on learning can enhance the effectiveness of teachers in their classrooms.

ED119 TEACHER CADET CLASS......3

The course is an introduction to the field of teaching. The course includes observation opportunities in local classrooms and didactic experiences in their various high schools. The intent of the class is to help students to decide if teaching is a career that they would want to pursue in the future.

ED123 MUSIC IN THE ELEMENTARY CLASSROOM......3

A methods class that is designed to encourage thinking about teaching. Another primary purpose of the class is to encourage an understanding of how to help students express themselves through music. The class will prepare the student with a foundation in competencies to prepare materials, establish teaching objectives, and teach the use of music within the elementary classroom. The class will provide the student with skills in using recorders, guitars, keyboards, and rhythm instruments for musical activities. Time will also be spent with rhythmic movement, and doing creative musical activities.

ED124 ELEMENTARY SCHOOL PHYSICAL EDUCATION .. 3

A methods class that is designed to instruct students in the essential components for teaching physical education to elementary students. Included in the class will be teaching styles, the development of children's physical, cognitive, and social skills, and organization of movement activities.

ED220 COOPERATIVE EDUCATION INTERNSHIP...... 1-6 See CA220.

FOREIGN LANGUAGE

Is a course designed as an overview of the initial grammar, vocabulary, and special features of the Spanish language . The focus of the course is upon the enhancement of reading, writing and oral communication skills.

FL112 SPANISH II	World History II is an introductory survey of major developments in the history of the world from the 15th century to the 21st century. Students will examine changes and continuities, patterns in and among various societies as they come into contact, influence each other, and, in places, become interdependent.
FL113 GERMAN I	HI122 U.S. HISTORY I
FL114 GERMAN II	HI123 U.S. HISTORY II
introduced. Prerequisite: German I FL200 SPANISH III	HI124 INTRODUCTION TO HISTORY
GEOGRAPHY GE101 WORLD GEOGRAPHY	HUMAN ECOLOGY HE124 NUTRITION
HISTORY	*HE095 ORIENTATION TO EARLY CHILDHOOD
HI108 → WOMEN IN AMERICAN SOCIETY3	This course is a supplemental course to accompany HE150, Early

Will explore the many facets of women in American society and the impact on relationships and family, both from historical and contemporary perspectives. Students will be offered a cross section of available information from a liberal arts perspective, including literature, psychology, history, political science, and social philosophy.

in the history of the world from the origins of civilizations to the 15th century. The focus is on a comparison of key trends and conditions in different parts of the world throughout these centuries.

*HE144 INCLUSIVE EARLY CHILDHOOD EDUCATION ...3
This course is a study of the research applications of how special children are included in the inclusive educational and day care settings. Emphasis will be placed on proven recommendations for inclusion merging early childhood education and early childhood

Childhood Development, and is designed to aid the student who

has scored below 74 on the reading and below 78 on the writing

of the Accuplacer test, or below 41 on the ASSET test, or below 21

on the ACT test, or who indicated that they would like additional

assistance with the course. Included will be review of the lectures

in a discussion format, computer aided instruction, additional videos to explain concepts, and the use of chapter vocabulary

worksheets and review questions for the HE150 lectures.

special education philosophies.

Will focus on the preparation for the Child Development Associate (C.D.A.) credential. The students will write their competency statements, prepare their Professional Resources File and study for the Early Childhood Studies Review. A person who has met the criteria established by the Council for Early Childhood Professional Recognition earns the CDA Credential. Successful completion of this course does not guarantee the granting of the C.D.A. by the Council for Early Childhood Professional Recognition.

*HE149 INTRODUCTION TO EARLY CHILDHOOD EDUCATION1

This course is an introduction to employment opportunities in Early Childhood Education. An overview of philosophies, ethics and developmentally appropriate practice will offer students a look into what they can expect from this field.

*HE150 → EARLY CHILDHOOD DEVELOPMENT......3

Is a study of the physical, cognitive, affective, social, and emotional development of the child from conception to age eight. Emphasis is on the interrelationship of growth and behavior of the preschool child. Included will be the influence of cultural environment on development and individual differences in development.

*HE151 EARLY CHILDHOOD DEVELOPMENT LAB1

The student will observe and learn about cognitive, emotional, social and physical development of the child from birth to age eight. The student will also learn proper observation techniques to be used for tracking healthy development.

*HE152 INTERACTION TECHNIQUES WITH YOUNG CHILDREN3

Is a study of the guidance approaches which can be used to interact with and guide young children in a group or family setting. Communication skills and development of a positive self-concept will be emphasized.

*HE153 CREATIVE ACTIVITIES FOR YOUNG CHILDREN......3

Is an introduction to various learning activities which may be used with preschool aged children in a group setting, focusing on selection, preparation, and presentation. Prerequisite: Successful completion of HE150.

*HE154 CREATIVE ACTIVITIES FOR YOUNG CHILDREN LAB......1

Is a laboratory experience to plan, prepare, present, and evaluate a variety of activities for preschool aged children.

*HE155 PARENT, PROVIDERS, AND COMMUNITY RELATIONSHIPS3

Is a study of Early Childhood Education provider's interrelationships with parents, colleagues, and the community. Topics

included are public relations, family diversity and development, asset building, evaluations, parent meetings, parent-teacher communications, and professionalism.

*HE156 DEVELOPMENTAL PROGRAM PLANNING FOR YOUNG CHILDREN OVER 2.5......3

Is a study of the techniques of curriculum planning for young children over 2.5 years in a group setting, emphasizing the organization of activities into complete unit plans and year long plans. Assessment techniques and accountability in terms of curriculum will be emphasized.. Prerequisite: Successful completion of HE152, HE153, and HE154.

*HE157 DEVELOPMENTAL PROGRAM PLANNING FOR YOUNG CHILDREN OVER 2.5 LAB1

Student will participate in various activity centers in a child care facility and will teach segments of the unit plans developed in Developmental Program Planning. Prerequisite: Successful completion of HE154 with a C or better.

*HE158 DIRECTED FIELD EXPERIENCE6

Is a supervised practicum in which students are responsible for daily planning, preparation, presentation, and evaluation of activities meeting developmental needs of children in an approved licensed child care facility. A minimum of 350 on-site hours is required for the semester. Weekly on-campus seminars. Prerequisite: Successful completion of HE156 and HE157 with a C or better and approval of instructor.

*HE159 DIRECTED FIELD EXPERIENCE SEMINAR1

Designed to facilitate the experience the students have in the approved licensed Child Care Facility. Topics of interest relevant to the learning taking place in the Centers will be discussed. Daily journals will be kept to facilitate optimal learning for the students. Must be taken concurrently with HE158.

*HE160 CHILD CARE ADMINISTRATION AND ORGANIZATION3

Is an analysis of the administrator's role in the Early Childhood Education Center. Application of philosophical approaches, communication techniques, and management skills necessary to operate early childhood programs. Federal, State, and local regulations and support systems will also be discussed.

*HE161 HEALTH & NUTRITION FOR YOUNG CHILDREN......3

Is a study of the health, safety, and nutritional needs of children (prenatal to age 8). Emphasis will be placed on the methods in which these health, safety, and nutritional needs can be met in a child care facility..

*HE162 CHILD CARE MANAGEMENT.....1

Is a reflective course dealing with management style as it relates to child care and guidance. The practical application of management principles as they relate to child care and guidance will be emphasized.

*HE163 PARENTING3

Is a study of varying approaches to parenting and their impact on the child's behavior and development. The major content of the course concerns preparing for parenthood using the democratic approach to parenting.

*HE164 DEVELOPMENTAL PROGRAMS PLANNING FOR YOUNG CHILDREN UNDER 2.53

This class will focus on the development of the child ages birth to thirty-six months and how to plan for this child in group care. Emphasis will be placed upon the parent-child relationship, parent-teacher relationship, child-teacher relationship, and development of the child.

This laboratory will focus on developing appropriate care giving behaviors for working with infants and toddlers. Focus will be placed upon developing care giving skills through direct involvement with the children. The semester will be shared between the infants and toddlers.

*HE168 FAMILY AND CULTURAL PERSPECTIVES......3

This course is an overview of diversity topics in early childhood education. Material covered may include, but is not limited to, reviewing personal biases, relationships with families, preparing the early childhood environment, sensitivity to diversity and conflict resolution.

HE220 COOPERATIVE EDUCATION INTERNSHIP...... 1-6 See CA220.

* A lab fee will be assessed for these courses.

HUMANITIES

HU201 HUMANITIES I3

Humanities I is designed to help you gain a richer understanding and enjoyment of the humanities, particularly in Western culture. This course includes an overview of the history of Western cultures between 1600 and the early 1800's and introduces great works of literature, philosophy, art, and music. As an interdisciplinary course, it seeks to show how these different elements contribute to and express human creativity and values. Prerequisite: English Composition I.

HU202 HUMANITIES II......3

Humanities II promotes the understanding and enjoyment of the humanities in Western culture. This course includes an overview of the history of Western cultures from the 1830's to present time and introduces great works of literature, philosophy, art, and music. As an interdisciplinary course, it seeks to show how these different elements contribute to and express human creativity and values. Humanities I is not a prerequisite for Humanities II. Prerequisite: English Composition I.

INDUSTRIAL EDUCATION

IE106 WELDING......3

Involves principles and practices in electric and gaseous welding. Course content includes theory of operation of the various electric welding machines (A.C., D.C., M.I.G., and T.I.G.) and gaseous welding equipment (oxygen, acetylene, carbon dioxide, argon, and propane) along with student practice and performance through use. Proficiency in welding various metals, positions, and types of welds will be stressed.

IE107 ADVANCED WELDING......3

Is an advanced course in welding designed to expand the beginning welders' skills and techniques in arc and acetylene welding, as well as expanding his understanding of metallurgy, heat treatment of metals and joint and weld defects. Students in the class are allowed to utilize these skills and understandings projects as jointly determined by the instructor and the student.

IE116 OSHA 10-HOUR CONSTRUCTION TRAINING ... 1/2

This course is intended to provide an entry level construction worker with broad awareness in recognizing and preventing hazards on a construction site. It is also ideal for supervisors with safety and health responsibilities. OSHA recommends the training as an orientation to occupational safety and health. Students will be introduced to OSHA policies, procedures, and standards. Emphasis will be placed on hazard identification, avoidance, control, and prevention. Upon successful completion of the course, participants will receive an OSHA 10-Hour Construction DOL Course Completion Card by mail.

IE117 OSHA 10-HOUR GENERAL INDUSTRY TRAINING......1

This course is intended to provide an entry level general industry worker with broad awareness in recognizing and preventing hazards on a general industry site. It is also ideal for supervisors with safety and health responsibilities. The course covers a variety of safety and health hazards which a worker may encounter. Students will be introduced to OSHA policies, procedures, and standards as well as general industry safety and health principles. Emphasis will be placed on hazard identification, avoidance, control, and prevention. Upon successful completion of the course, participants will receive an OSHA 10-Hour General Industry DOL Course Completion Card by mail.

IE125 BLUEPRINT READING AND CUTTING PROCESSES2

In this course, students will learn the importance of blue-prints/ working drawings in welding as well as a variety of cutting processes. Line conventions, drawing views, dimensioning, scales, and welding symbols will be explored. Students will describe and demonstrate oxyacetylene, plasma, and carbon arc cutting following shop drawings.

IE126 SHIELDED METAL ARC WELDING3

Through classroom and/or lab/shop learning and assessment activities, students in this course will: describe the Shielded Metal Arc Welding process (SMAW); demonstrate the safe and correct set up ofthe SMAW workstation; associate SMAW electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses; build pads of weld beads with selected electrodes in the flat position; build pads of weld beads with selected electrodes in the horizontal position; perform basic SMAW welds on selected weld joints; and perform visual inspection of welds

IE127 GAS METAL ARC WELDING......3

Through classroom and/or shop/lab learning and assessment activities, students in this course will: explain gas metal arc welding process (GMAW); demonstrate the safe and correct set up of the GMAW workstation.; correlate GMAW electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses; build pads of weld beads with selected electrodes in the flat position; build pads of weld beads with selected electrodes in the horizontal position; produce basic GMAW welds on selected weld joints; and conduct visual inspection of GMAW welds.

IE128 FLUX CORE ARC WELDING......3

This course focuses on the Flux Cored Arc Welding (FCAW) process. Students in this course will describe and demonstrate Flux Cored Arc Welding through classroom and shop learning. Proficiency in welding in all positions according to AWS standard will be stressed.

IE129 GAS TUNGSTEN ARC WELDING3

Through classroom and/or lab/shop learning and assessment activities, students in this course will: explain the gas tungsten arc welding process (GTAW); demonstrate the safe and correct set up of the GTAW workstation; relate GTAW electrode and filler metal classifications with base metals and joint criteria; build proper electrode and filler metal selection and use based on metal types and thicknesses; build pads of weld beads with selected electrodes and filler material in the flat position; build pads of weld beads with selected electrodes and filler material in the horizontal position; perform basic GTAW welds on selected weld joints; and perform visual inspection of GTAW welds.

This course provides instruction to plumbers, electricians, and heating/air personnel in the proper techniques and procedures for working with natural or propane installations; as well as electrical lock-out/tag-out. The course covers the components of a gas system, sizing of piping, proper purging of a system, differences between a leak test and a pressure test, flow test, various safety issues, hands-on training with pipe/fitting display boards, demonstration of various testing equipment, and lock-out/tag-out per OSHA regulations.

JOURNALISM

JN100 MASS MEDIA IN SOCIETY......3 A general survey of the various mediums of mass communication, including print media and electronic media and movies, and their roles in American society.

JN101 BASIC MEDIA WRITING......3

Explores mass media sources of information, the preparation and the application of the media message. After learning techniques for information gathering, students will study and practice the fundamentals of writing for each of the mass media outlets.

JN140 BEYOND WEB 2.0: SOCIAL MEDIA AS IDENTITY .3

For today's college students, digital communication is the norm, but what does it mean to exist in an online community? Tools like Facebook, Twitter, and text messaging are prevalent and you can learn to use them all to maintain privacy, enhance reputation, and build a more satisfying personal and professional life online. This course proposes to make every enrolled student an astute digital learner. Students will also understand the sociocultural implications of their digital existence and the powerful marketing tool that is social media.

JN220 COOPERATIVE EDUCATION INTERNSHIP....... 1-6 See CA220.

* A lab fee will be assessed for these courses.

MANAGEMENT

Is an introductory course designed to provide the student with fundamental concepts and terminology. Designed for development of managerial techniques and practices and the

MG101 → MANAGEMENT PRINCIPLES3

understanding of their utilizations. For both terminal degree and transfer students.

MG102 INTRODUCTION TO ENTREPRENEURSHIP3

In this course you will find information on high growth, start-up ventures, such as Dell Computer, Google and Microsoft (all started while the founders were college students, by the way!). But more importantly you will find information on the kinds of small businesses most people really do start. These are small businesses in traditional industries and markets from the "Mom and Pop" retail, a manufacturing or service business, a web-based enterprise to the sophisticated, pre-packaged franchise operation. According to the textbook authors, small businesses are vitally important to our economy and helping them survive has long been an art. In this course you will study the art and the science of small business management. The objective of the course is to help you understand the challenge before you operate your own small business.

MG220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220.

MANUFACTURING SKILLS

This program provides students with an overview of geometric dimensions and tolerances, teaching basic methods of reading and interpreting GD&T symbols and how part features are specified in terms of their relationships to other features.

The use and reading of precision measurement devices, including mastery of the most common gauges and measurement tools seen in typical work environments, is a requirement for many jobs today. This course enables workers to learn practical, efficient ways to read these devices and build the skills necessary for quality improvement.

MS103 APPLIED SHOP MATHEMATICS I2

Almost every shop activity requires basic math skills. This course will give workers the practical knowledge they need to understand and use basic math for practical problem solving they typically encounter on the job.

MS104 OCCUPATIONAL SAFETY AND HEALTH1

This course provides the student with an understanding of current safety regulations, established safety practices, how to recognize basic hazards and the impact of work related injuries to the company and the employee.

MS105 EMPLOYABILITY SKILLS.....1

This course prepares students for employment by providing them with the information and skills needed to obtain and be successful at a job. Students will learn how to take full advantage of employment opportunities, including mastering resume writing, cover letters, job search and job interview skills.

MATHEMATICS

(Courses numbered 099 and below will not apply toward graduation.)

MA091 INTERMEDIATE ALGEBRA APPLICATIONS2

This course is designed and structured to support Intermediate Algebra students who have appropriate test scores. Students in the prescribed range of test scores must be enrolled in this course and a paired section of MA110, Intermediate Algebra, or they may enroll in MA099, Elementary Algebra.

MA092 COLLEGE ALGEBRA APPLICATIONS.....1

Provides This course is designed and structured to support College Algebra students who have appropriate test scores. Students in the prescribed range of test scores must be enrolled in this course and a paired section of MA111, College Algebra, or they may enroll in MA110, Intermediate Algebra.

MA099 ELEMENTARY ALGEBRA......3

This course is designed for students with little or no high school algebra, or those who have appropriate math scores on the ACT or Accuplacer exam. Topics covered will include properties of the graphs of linear equations, polynomials, factoring rational expressions, and radicals. Prerequisite: Pre-Algebra with a C or better, or appropriate test scores.

MA104 TECHNICAL MATH......3

This course is intended as a terminal course for students seeking an AAS degree or various certificates. This course will not fulfill prerequisites for either Intermediate Algebra or College Algebra, and will not serve as a replacement for these classes to satisfy degree requirements for mathematics courses. This course covers the mathematics commonly used in technical fields at an elementary level. Topics covered may include, but are not limited to, the following: review of arithmetic operations and the Order of Operations agreement, simplifying various algebraic expressions, solving various types of equations, setting up and solving ratios, proportions and variation problems, rules for how to work with exponents and radicals, conversion of measurements between different systems, formulas for perimeter, area and volume of basic geometric objects, angles and trigonometric ratios, and personal finance tools and technologies. Prerequisite: none

MA107 MEDICAL MATHEMATICS.....1

This course covers application problems involving medical dosages and intravenous fluid rates. Students who need orientation to the mathematical procedures of medication calculations will benefit from this course.

MA110 → INTERMEDIATE ALGEBRA3

This course is designed for students who are inadequately prepared for College Algebra. Topics covered will include linear

equations and inequalities, functions, systems of linear equations, polynomials, exponents, rational expressions, radical expressions, and quadratic equations. Prerequisite: appropriate test scores or Elementary Algebra with a grade of C or better or its equivalent.

MA111 → COLLEGE ALGEBRA......3

This course reviews standard topics of algebra. Students will study linear and quadratic equations, functional notation, linear, quadratic, rational, logarithmic and exponential functions, systems of equations and inequalities, and matrix algebra. Other topics may be covered at the instructor's discretion. Prerequisite: appropriate test scores or Intermediate Algebra with a grade of C or better.

MA112 TRIGONOMETRY......3

Is a study of trigonometric functions and their applications, solutions to right and oblique triangles, trigonometric identities, inverse functions, graphs of trigonometric functions, and vectors. Prerequisite: appropriate test scores or College Algebra with a grade of C or better.

MA114[™] ELEMENTARY STATISTICS......3

This course is designed for students with adequate algebra background to cover introductory, non-calculus based statistics. Topics covered will include sampling and displaying data, measures of central tendency and variation, introductory probability theory, discrete probability distributions (binomial), normal distributions, standard normal distributions, sampling distributions and the central limit theorem, estimating parameters, hypothesis testing, regression and correlation, chi-square, and non-parametric statistics. Prerequisite: College Algebra with a C or better.

MA115 → LINEAR ALGEBRA AND GENERAL CALCULUS 3

This course is an introduction to calculus and linear algebra concepts particularly useful to economics and business administration students. It requires no knowledge of trigonometry, and is not intended for a student seeking a degree in a science related field. Topics covered include limits, derivatives, multivariate calculus, basic integrals, and systems of equations. Practical applications include analysis of mixing problems, optimization, analysis of graphs for sales and marketing purposes, and marginal analysis. Prerequisite: College Algebra with a C or better.

MA120 → ANALYTIC GEOMETRY AND CALCULUS I5

This course reviews inequalities, linear equations, function notation, graphing and trigonometry. Students will study limits, continuity, derivatives, differentia ls, L'Hopital's Rule, and integrals. Practical applications include graphing, motion, optimization, related rates, Newton's Method, and L'Hopital's Rule, and area. Prerequisite: appropriate test scores or College Algebra and Trigonometry with grades of C or better.

MA121 ANALYTIC GEOMETRY AND CALCULUS II......5

This course picks up where MA120 left off with applications of integration. Develops calculus as applied to logarithmic, and

exponential. Students study limits, techniques of integration, infinite series, parametric equations and polar coordinates. Practical applications include growth and decay, Taylor series, surface area, work and arc length. Prerequisite: Analytic Geometry and Calculus I with a C or better.

MA122 ANALYTIC GEOMETRY AND CALCULUS III......5

Students will study vectors, vector functions, surfaces, differentiation, integration, cylindrical and spherical coordinates, and vector calculus. Practical applications will include arc length, area, volume, and optimization. Prerequisite: Analytic Geometry and Calculus II with a C or better.

MA123 DIFFERENTIAL EQUATIONS4

This course is the study of qualitative and quantitative behavior of first- and second-order differential equations, as well as systems of first-order equations. Both analytical and numerical methods for solution will be studied, including the use of Laplace transforms. Prerequisite: Analytic Geometry and Calculus III with a C or better.

MA130 → CONTEMPORARY MATH.....3

Explores the uses of mathematics in different settings. Applications are seen in the contemporary world, across different disciplines. Topics will include, but are not limited to, the following: critical and logical thinking, statistics and probability, the application of mathematics to social issues such as voting, and financial applications. Prerequisite: MA 110 Intermediate Algebra with a grade of C or better.

MA220 COOPERATIVE EDUCATION INTERNSHIP 1-6 SEE CA220.

MUSIC

*MU100 MUSIC APPRECIATION......3

Music Appreciation is a basic study of the development of the art of music (European based) and personal development of the art of creative listening through frequent use of recordings. Recommended for the general student and music major.

MU102 WORLD MUSIC3

World Music is a study of music in the context of human civilization and a people's way of life. Cultural awareness leads to an understanding of that way of life. Cultures to be studied will include: Navajo, West Africa, American Blues, South India, Indonesia, Japan, and Ecuador. Recommended for the general student and music major.

MU103 HISTORY OF ROCK MUSIC3

This course will survey the history of rock music from 1950 to the present. Idioms covered will include early rhythm and blues, Southern influenced gospel and spirituals, rockabilly, the

California "surf" sound, the British invasion, the Motown sound, pop and folk rock, contemporary Southern rock, heavy metal, funk, and modern hip-hop. Artists and music from these genres will be studied with special emphasis placed on the significance of music in development of popular culture.

MU104 CLOUD COUNTY COMMUNITY CHORALE.....1

The Cloud County Community Chorale is the community choir of Concordia and North Central Kansas. Comprised of singers from within the community as well as CCCC, the Chorale emphasizes the ideal of the "singing city" --friends and neighbors gathered together to rehearse and perform music from different time periods, with added emphasis on fostering arts and music within Concordia and the broader region. Rehearsals are held once weekly with performances throughout the year. No audition is required.

MU110 → HARMONY AND EAR TRAINING I.....4

Harmony and Ear Training I is the study of the structure and components of western music. This study will include the fundamental concepts of notation, tonality, intervals, chords, melodic organization, rhythm, harmonic progression and analysis. Additional aural skills concepts of dictation and sight singing will also be covered.

MU111 → HARMONY AND EAR TRAINING II......4

Harmony and Ear Training II is the intermediate study of the structure and components of western music and builds on the concepts explored in Harmony and Ear Training I. This study will include supplemental concepts of notation, tonality, intervals, chords, melodic organization, rhythm, harmonic progression and analysis. Additional aural skills concepts of dictation and sight singing will also be covered. Prerequisite: Harmony and Ear Training I or consent of instructor.

MU112 HARMONY AND EAR TRAINING III4

Harmony and Ear Training II is an advanced level course with the addition of altered chords, ninth, eleventh and thirteenth chords and simple and complex methods of modulation, plus advanced ear training procedures including harmonic as well as melodic dictation and sight singing. Prerequisite: Harmony and Ear Training II.

MU113 HARMONY AND EAR TRAINING IV.....4

Is a continuation of Harmony and Ear Training III. Prerequisite: Harmony and Ear Training III.

MU117 COLLEGE BAND1

The "Rolling Thunder" is the college activity band. This ensemble rehearses twice per week and performs in a college service capacity at athletic contests and other appropriate campus and community events.

MU118 COLLEGE BAND II.....1

This course is a continuation of College Band. The "Rolling Thunder" is the college activity band. This ensemble rehearses

twice per week and performs in a college service capacity at athletic contests and other appropriate campus and community events.

MU119 COLLEGE BAND III1

This course is a continuation of College Band II. The "Rolling Thunder" is the college activity band. This ensemble rehearses twice per week and performs in a college service capacity at athletic contests and other appropriate campus and community events.

MU126 CONCERT BAND.....1

Concert Band rehearses one day weekly and will perform a formal concert each semester. Literature performed will be from the traditional as well as modern band repertoire and will include works from such representative composers as Gustav Holst, Ralph Vaughan-Williams, John Philip Sousa, and Johan DeMeij. Prerequisite: Proficiency on a traditional wind or percussion instrument.

MU127 JAZZ ENSEMBLE.....1

Jazz Ensemble is a small instrumental group designed to perform in the popular idiom, including rock, soul, folk type, and country music. This group is primarily a public performing ensemble that is small enough to be mobile yet large enough to perform all types of music in the popular fields. By audition. Jazz meets three times a week for fifty-five minutes each, one hour credit.

MU130 APPLIED MUSIC: VOICE.....1

Applied Music: Voice provides the opportunity for the student to improve his singing skills in a direct teacher-to-student instructional setting. Technical skills and their application will be explored within a varied song repertoire.

MU131 APPLIED MUSIC: INSTRUMENT1

Applied Music: Instrument is for individual instruction in instrument of student's choice beginning with student's level of competency.

MU132 → APPLIED MUSIC: PIANO1

Applied Music: Piano is for individual instruction in piano beginning with the student's level of competency and developing piano techniques and building a repertoire.

MU134 APPLIED MUSIC: VOICE II1

Applied Music: Voice II is a continuation of Applied Music: Voice. It involves private instruction in voice techniques. Appropriate skills and applications will be addressed through preparation of appropriate literature for recital performance.

MU135 APPLIED MUSIC: INSTRUMENT II......

Applied Music: Instrument II is a continuation of Applied Music: Instrument. It involves private instruction in instrumental

techniques. Appropriate skills and applications will be addressed through preparation of appropriate literature for recital performance.

MU136 APPLIED MUSIC: PIANO II.....1

Applied Music: Piano II is a continuation of Applied Music: Piano. It involves private instruction in piano techniques. Appropriate skills and applications will be addressed through preparation of appropriate literature for recital performance.

MU137 APPLIED MUSIC: VOICE III......1

Applied Music: Voice III is a continuation of Applied Music: Voice II. It involves private instruction in piano techniques. Appropriate skills and applications will be addressed through preparation of appropriate literature for recital performance.

MU138 APPLIED MUSIC: INSTRUMENT III......1

Applied Music: Instrument III is a continuation of Applied Music: Instrument II. It involves private instruction in piano techniques. Appropriate skills and applications will be addressed through preparation of appropriate literature for recital performance.

MU139 APPLIED MUSIC: PIANO III1

Applied Music: Piano III is a continuation of Applied Music: Piano II. It involves private instruction in piano techniques. Appropriate skills and applications will be addressed through preparation of appropriate literature for recital performance.

MU160 CONCERT CHOIR1

Concert Choir is a large, mixed-voice ensemble that performs for collegiate and community events. Emphasis is placed on developing musical skills, exploring diverse musical literature, and offering a challenging and satisfying musical experience. Rehearsals are held twice weekly. No audition is required.

MU160 CONCERT CHOIR II1

Concert Choir II is a continuation of Concert Choir.

MU220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220.

NURSING

*NR111 HEALTH ASSESSMENT FOR NURSES3

This course is designed to provide students with a basic understanding and working knowledge of health assessments to begin making clinical judgments. Opportunities are provided for students to demonstrate competencies of the individual across the life span. Emphasis is placed on the interview process and recognition

of expected findings for history and physical examination of each system. Prerequisite: Anatomy & Physiology, Human Growth & Developement, Intermediate Algebra or higher with a grade C or higher, admission to the associate degree nursing program, and NR111 taken concurrently or completed with an 80% (B) or higher.

*NR111 LIFESPAN NURSING I.....9

This course is an introduction to the professional role of the nurse and nursing process. Foundational psychomotor skills, safe practice, and basic communiation skills are taught to provide care to adults and older adults. Requisite lab and clinical experiences are part of this course. Prerequisite: Anatomy & Physiology, Human Growth and Development, General Psychology, Intermediate Algebra or higher with grade C or higher, admission to the associate degree nursing program, and NR110 taken concurrently or completed with an 80% (B) or higher.

*NR112 LIFESPAN NURSING II9

This course is an introduction to the care of healthy families, health promotion, and patient centered care associated with common acute and chronic physical and psychosocial health alterations across the lifespan. Requisite lab and clinical experiences are part of this course. Prerequisite: Successful completion of Lifespan Nursing I and Health Assessment for Nurses with a grade of 80% (B) or higher.

*NR114 PHARMACOLOGY II......2

This course focuses on nursing implications associated with pharmacologic therapy for patients across the lifespan experiencing acute and chronic health alterations. Prerequisite: Pharmacology I with a grade C or better.

*NR115 PHARMACOLOGY III1

In this course, students continue their study of pharmacology and nursing implictions across the lifespan. Specific prototypes of selected drug classifications provide the framework for understanding the action, use, adverse effects and nursing implications of medications. The nurse's role in drug administration, assessment, and patient education are emphasized. Prerequisite: Pharmacology II with grade 80% (B) or higher or admission to the Nursing Program with Advanced Standing.

*NR210 LPN TO RN BRIDGE COURSE.....2

This course focuses on professional standards, scope of practice, clinical reasoning and psychomotor skills for the Registered Nurse. Prerequisite: Completion of a practical nurse program, LPN licensure or candidate for licensure, admission to the ADN program, Anatomy and Physiology, Human Growth and Development, Intermediate Algebra, and Pathophysiology.

*NR211 LIFESPAN NURSING III9

This course builds to provide care for patients with complex,

^{*} A lab fee will be assessed for these courses.

acute and chronic, physical and psychosocial health problems. The concepts of prioritization and clinical judgment are incorporated to provide care for patients across the lifespan. Requisite lab and clinical experiences are part of this course. Prerequisite: Successful completion of Lifespan Nursing II, Pharmacology II with a grade 80% (B) or higher. (or) LPN licensure, Concurrent NR210, Anatomy and Physiology, Human Growth and Development, General Psychology, English Composition I, Intermediate Algebra, Pathophysiology with a grade C or higher and admission to the ADN program.

*NR212 LIFESPAN NURSING IV9

This course addresses emergent and multisystem healthcare problems. It supports the transition of the student to the professional role of the nurse. Requisite lab and clinial experiences are part of this course. Prerequisite: Pharmacology III and Lifespan Nursing III with a grade 80% (B) or higher.

NR220 COOPERATIVE EDUCATION INTERNSHIP...... 1-6 See CA220.

* A lab fee will be assessed for these courses.

PHYSICAL EDUCATION

PE101 TEAM SPORTS I......

Is designed to give the student an opportunity to participate in physical education activities of a team nature. Areas of interest includes, but are not limited to, soccer, men's basketball, women's basketball, volleyball, baseball, softball, and men's and women's track.

PE102 TEAM SPORTS II1

Is designed to give the student an opportunity to participate in physical education activities of a team nature. Second semester activities are basketball, volleyball, and softball.

*PE107 BOWLING I1

Is designed to teach the fundamentals of bowling to the beginner or to one who needs to improve his\her skill.

*PE108 ARCHERY.....1

Is designed for students interested in the sport of archery. The course will teach the student fundamentals in archery skills and competition.

PE109 GOLF I......1

Is designed to teach the fundamentals of golf.

PE110 TOTAL FITNESS......1

Is designed to bring about changes in the body as manifested by physical exercise. This course can be physically demanding, but very satisfying for those interested in improving their physical condition. Students will be informed on how to correctly use all of the equipment in the fitness center, and will have the opportunity

to ask questions of the instructor or the fitness center staff member on duty when working out.

PE113 SOCIAL DANCE I

Is a beginning course teaching basic steps such as fox-trot, waltz, polka, line dances, jitterbug, etc., and a knowledge of ballroom etiquette.

PE114 SOCIAL DANCE II.....1

Includes advanced ballroom dance steps. Learn steps to the hustle, cha cha, folk dancing, and variations of steps learned in Social Dance I. Prerequisite: Social Dance I.

PE118 AEROBICS......1

Is a course designed to achieve and maintain a persons total fitness. Total fitness is achieved through the development of strength, endurance, dedication, forming good attitudes and self-discipline.

PE119 WEIGHT TRAINING AND PHYSICAL FITNESS.....1

Involves development of the muscular system as well as overall fitness. Includes explanation of muscular function and how to plan a conditioning program suited for an individual. This course is physically demanding, but very satisfying for those interested in improving their physical condition.

PE125 FITNESS FOR LIFE.....1

The primary purpose of this course is to acquaint students with a basic knowledge, understanding and value of physical activity as related to optimal healthful living.

PE126 CHEERLEADING I1

Is designed to teach the student the fundamentals of cheerleading. This is a first level cheer class. Students will learn beginning stunting including the preparation and practice of routines, weight conditioning programs, knowledge of personal health and self-motivation, as well as focusing on cheer techniques. Students will also learn cheer terminology, choreography, and other related topics. (With approval of Cheer Coach.)

PE127 CHEERLEADING II1

Is designed to teach the student the fundamentals of cheerleading. This is the second level of cheerleading. Students will be expected to be role models and help teach the advanced stunting to the first level students. This includes the preparation and practice of routines, weight conditioning programs, knowledge of personal health and self-motivation, as well as focusing on stunting techniques. Students will also learn stunting terminology, choreography, and other cheer related topics. (With approval of Cheer Coach.)

PE128 DANCE TEAM I......

Is designed to teach the student the fundamentals of dance. This is a first level dance class that will include the preparation and practice of routines, weight conditioning programs, knowledge of personal health and self-motivation, as well as focusing on jazz, hip hop, lyrical, and modern dance techniques. Students will also

learn dance terminology, choreography, and other dance topics. (With approval of Dance Coach.)

PE129 DANCE TEAM II1

Is designed to teach the student the fundamentals of dance. This is a second level class where the students will be more involved with helping demonstrate techniques and will include the preparation and practice of routines, weight conditioning programs, knowledge of personal health and self-motivation, as well as focusing on jazz, hip hop, lyrical, and modern dance techniques. Students will also learn dance terminology, choreography, and other dance related topics. (With approval of Dance Coach.)

PE130 INTRODUCTION TO PHYSICAL EDUCATION......3

Surveys the modern program of physical education, fitness and sport as to its history, philosophy, aims and objectives. It covers a broad scope of topics including personal fitness, scientific foundations, exploring careers professional development, coaching and athletics and social foundations.

*PE131 FIRST AID AND SAFETY3

Acquaints the student with safety and first aid (treating injuries and sudden illnesses) in the home, school, and community. The National Safety Council first aid course and American Heart Association Heartsaver and Healthcare Provider courses are offered.

PE134 PERSONAL AND COMMUNITY HEALTH3

The study of personal health and wellness of the individual. The course examines several areas of wellness to include the physical, psychological, social, intellectual, spiritual, and environmental dimensions. The student will assess him/herself in numerous areas of lifestyle (i.e. stress, physical fitness, nutrition, destructive behaviors, communicable diseases, chronic diseases) and examine ways to improve his/her health for the future.

PE135 CONCEPTS OF PHYSICAL EDUCATION.....1

The primary purpose of this course is to acquaint students with a basic knowledge, understanding and value of physical activity as related to optimal healthful living. The course will include physical fitness assessment, exercise prescription, nutrition, weight management and stress management.

PE136 THEORY OF COACHING3

A comprehensive introduction to the art and science of coaching. This course introduces a positive coaching philosophy, the principles of coaching as digested from the fields of sport psychology, sport pedagogy, sport physiology, sport medicine, and sport management. This course includes American Sport Education Program Coaching Principles certification (K.S.H.S.A.A. - Level 1 certification)

PE137 INTRODUCTION TO RECREATION3

This course is designed to introduce the student to the nature,

scope and history of recreation, leisure services, and outdoor education. It examines trends and issues of leisure studies and out-of-door recreation, and potential of these areas of service as a profession.

PE139 TECHNIQUES OF COACHING BASKETBALL2

Is designed to provide coaches with the skills needed to organize and develop a quality basketball program. It will include basketball techniques, strategies, theories, philosophies of offense and defense, also organizational, administrative skills to handle parents, players, assistant coaches and school personnel. Class will consist of lectures, small group activity, videos, observations and gymnasium activity.

PE140 TECHNIQUES OF COACHING VOLLEYBALL2

Is designed to provide coaches with the skills needed to organize and develop a quality volleyball program. It includes volleyball techniques and tactical strategies (offenses and defenses) of the game.

PE141 ▶ PERSONAL WELLNESS......3

The study of personal health and wellness of the individual. The course examines several areas of wellness to include the physical, psychological, social, intellectual, spiritual, and environmental dimensions. The student will assess him/herself in numerous areas of lifestyle (i.e. stress, physical fitness, nutrition, destructive behaviors, communicable diseases, chronic diseases) and examine ways to improve his/her health for the future.

PE142 CYCLING1

An introductory road cycling course. Emphasis will be placed on proper bicycle maintenance, riding technique, safety, and etiquette. The course is designed to provide students with an appreciation of cycling as a way to achieve personal health, fitness, or competitive goals. Mountain and cross bikes are welcome, but the majority of riding will be on pavement. This course can be physically demanding, but satisfying for those interested in improving their physical condition.

PE143 TOTAL FITNESS II1

This class is designed to bring about continued changes in the body as manifested by increased amounts of physical exercise. This course is physically demanding, but very satisfying for those interested in continuing to improve their physical condition. Prerequisite: Total Fitness.

*PE144 ARCHERY II......1

This class is designed for students interested in the sport of archery. This course is designed to teach the student more advanced archery skills and levels of competition.

PE146 CONCEPTS OF TEAM SPORTS......3

This course is to provide learning experiences that will lead to the

development of basic skills in team sports. In addition to skill acquisition, the course will focus on how to plan, implement, and explain the different sports/activities that are presented. An emphasis will be placed on the use of the game stages and movement framework as a guide for designing a variety of sport game experiences. Students will be expected to achieve an intermediate level of skill in the selected team sports. Practice outside of class time may be necessary for some students to achieve the expected performance level.

Is designed for students interested in the prevention and care of athletic injuries. Basic principles of all aspects of athletic training are covered. Through lectures on specific injuries and practical lab experiences, the student will learn how to recognize and care for common athletic injuries. This course is open to all students, it is a first semester requirement for students in the Athletic Training Program.

This course is designed for students interested in the evaluation, treatment, and rehabilitation of upper extremity athletic injuries. The anatomy involved in specific injuries that commonly occur in athletics and evaluation techniques will be emphasized. The use of therapeutics modalities and rehabilitation exercises for athletic injuries will be presented. Through lectures on specific injuries and practical lab experiences the student will learn about basic athletic training. This course is open to all students. This course is a second semester requirement for students in the Athletic Training program. Prerequisite: Basic Care & Prevention of Athletic Injuries I with passing grade or consent of instructor.

PE155 RECOGNITION & CARE OF ATHLETIC INJURIES..3

This course will acquaint the student with the first-response recognition, evaluation and treatment techniques for more than 110 sport related injuries and illnesses. It will cover treatment of injuries and illness, injury prevention, as well as cardiopulmonary resuscitation (CPR) for young adults. This course includes American Sport Education Program Sport First Aid Certification (K.S.H.S.A.A. - Level 2 certification).

This course is designed to provide students with the theoretical and practical knowledge of the physiological, biomechanical and administrative aspects of designing and supervising safe and effective strength and conditioning programs for youth through adult populations.

PE160 VARSITY SPORTS: BASEBALL.....

A sport for baseball players. It begins the first day of classes for the fall semester and ends with the regional and national baseball tournaments in May. Baseball consists of skill development, intended to produce a competitive baseball team, in pitching, fielding and hitting skills.

PE161 VARSITY SPORTS: BASKETBALL

A sport for basketball players. Practice begins the first of October and concludes in March. Preseason conditioning starts four weeks preceding regular practice. Players will practice six days a week and play approximately 30 regular season games.

PE162 VARSITY SPORTS: TRACK1

A sport for track and field athletes. Athletes are expected to participate in all practices and meets scheduled by the coach.

PE164 VARSITY SPORTS: SOCCER.....1

A sport for varsity soccer players. It begins two weeks prior to the fall semester and its conclusion coincides with the end of the spring semester. Soccer consists of a number of daily activities to include practice for skill and fitness development, study hall, and attendance checks all of which are designed to promote the success of the student athletes involved.

PE165 VARSITY SPORTS: SOFTBALL.....1

A sport for softball players, which includes Fall and Spring Semester participation. Softball consists of daily practices and a schedule of approximately 20 games in the Fall and 50 games in the Spring.

PE167 VARSITY SPORTS: CROSS COUNTRY1

A sport for distance runners. It begins in August or at the start of the Fall Semester and ends with the National Championship in November. Cross country consists of a variety of hill, road and track workouts to better develop the cardiovascular system.

PE168 VARSITY SPORTS: VOLLEYBALL1

This class is designed to bring about changes in the body as manifested by physical exercise. This course can be physically demanding, but very satisfying for those interested in improving their physical condition. Students will be informed on how to correctly play the game of volleyball, and will have numerous opportunities to play the game as well. Also students will be provided the opportunity to ask questions of the instructor training or competing.

PE169 VARSITY SPORTS: WRESTLING1

A sport for wrestlers. The course begins the first day of classes for the fall semester and ends with the regional wrestling tournaments in February. Wrestling consists of skill deelopment intended to produce a nationally competitive NJCAA wrestling program in all aspects.

PE185 VARSITY SPORTS: BASKETBALL II.....1

Students will comprehend and demonstrate the fundamental skills of shooting, passing, dribbling, and rebounding the basketball.

Students will learn to analyze and demonstrate these skills within a competitive environment. This course is a continuation of Varsity Sports: Basketball.

PE220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220.

PE250 STRESS MANAGEMENT3

This course will study the mind-body relationship and the psychophysiology of stress including the relationship of the stress reaction to specific illnesses and disease. The course will cover an understanding of the basic principles of stress management through coping skills, the study of the mind-body relationship in stress management, cognitive reappraisal of daily life stressors, and techniques to deal with these stressors. The cognitive strategies and relaxation techniques are cornerstones for optimal health and can help one manage stressors in a healthful and productive manner.

* A lab fee will be assessed for these courses.

PHARMACY TECHNICIAN

PM101 COMMUNITY PHARMACY PRACTICE.....1

In this course, we examine the history and roles of pharmacists and pharmacy technicians, we look at the evolution of laws and regulations that guide the practice of community pharmacies, begin basic patient prescription processing, introduce extemporaneous compounding, and explore the changing face of community pharmacy away from dispensing only functions.

PM102 HEALTHCARE LAW OVERVIEW1

The purpose of this course is to introduce principles of law and ethics in pharmacy. The course will examine the federal and state laws that impact the practice of pharmacy, while emphasizing the legal and ethical principles applied by staff in their daily decision-making. Students will learn the governmental framework within which pharmacy is practiced, as well as acquire an understanding of the laws, regulations, and the ethical responsibilities applicable to pharmacy staff so that they will be able to protect the public and ensure patients' well-being.

PM103 PHARMACOLOGY FOR PHARM TECH.....3

In this class we examine the various drug classes and the mechansms of action for many drugs. This course provides students a comprehensive pharmacology background to further prepare them for employment in community, institutional and other pharmacy settings.

PM110 HOSPITAL AND SPECIALITY PHARMACY PRACTICE.....1

Explores the role of pharmacy technicians and the practice of pharmacy in the hospital, specialty, and institutional setting. This course covers institutional and pharmacy organization, operation, terminology, medication distribution systems, packaging and preparation of intravenous admixtures.

PM111 PHARMACY CALCULATIONS3

In this course we continue to build upon the skills acquired in Medical Math but focus on more complex forms of non-sterile and sterile compounding of pharmaceuticals. Pharmacy technicians are increasingly being asked to assist the pharmacist in calculating appropriate dose and dosage form. It is vital that the advanced technician be able to confidently and accurately perform these functions.

PM112 MEDICATION SAFETY AND ADVANCED

PRACTICE.....1

Exploration of Medication Therapy Management and the pharmacy technician's role in assuring best pratice and patient safety. Technicians are being increasingly relied on to assist pharmacists in caring for patients needs outside of drug dispensing. Through examination of over the counter, natural health, and complementary health options, the student will be well prepared to assist the pharmacy customer on the retail side of the counter.

PHILOSOPHY

PH100 ▶ INTRODUCTION TO PHILOSOPHY3

Is a survey course designed to increase the student's understanding of their own ideas, the ideas of philosophers, and the ideas of their fellow students. Topics covered include: logic, epistemology, ethics, pragmatism, and existentialism.

PH101 ► INTRODUCTION TO CRITICAL THINKING3
Is designed to help students recognize inaccurate and fallacious reasoning and identify and practice good thinking. Students will

reasoning and identify and practice good thinking. Students will apply the standards of good reasoning to traditional and contemporary ethical, social, economic and political problems.

PH105 CHRISTIAN ETHICS IN OUR CONTEMPORARY SOCIETY3

Traditional ethical theories are discussed, with reference to Plato, Aristotle, Bentham, Mill, Kant and John Rawls. The nature of ethics is clarified in terms of how science and philosophy differ in their approaches to moral behavior. Biblical ethics of both Old and New Testaments are examined and compared to traditional social and moral issues. Moral problems and social issues such as abortion, capital punishment, business practices, sexuality, world hunger, pornography and war are studied from various viewpoints.

PHOTOGRAPHY

*PT101 PHOTOGRAPHY I......3

Is a beginning course emphasizing types and basic construction

of the camera, elements of good picture taking and the use of the darkroom. (Dual listed with art)

*PT102 PHOTOGRAPHY II......3

Is a continuation of Photography I with emphasis on picture taking and darkroom procedure. Prerequisite: Photography I or permission by instructor. (Dual listed with art)

PT229 ADVANCED DIGITAL IMAGING......3

Advanced work in Digital Photography to develop an understanding of advanced photographic techniques and computer assisted image manipulation. This course will include, but not be limited to, the following topics; advanced camera functions, advanced digital image processing, visualization and design skills, and digital manipulation techniques needed in today's market place. Students will have opportunities to create portfolio pieces.

* A lab fee will be assessed for these courses.

RELIGION

RE102 CONTEMPORARY CHRISTIAN THOUGHT.....2

Is directed to the innovators of contemporary religious thinking, the secularizers and to the existentialists movements. Such theologians as Barth, Niebuhr, Brunner, Bonhoeffer, Chadin, Kierkegaard, Marcel, Bullman, Bubet and others are considered. The newsworthy theological opinion-makers are presented.

RE103 RELIGION IN CONTEMPORARY AMERICA......3

Is an analysis of current American religious bodies in contemporary history. Consideration of both the more traditional bodies and the more recent arrivals will be evaluated. This course, as an analysis of current American religious denominations and the social and political dynamics that they have made on American society. We will use the time frames of the decades of 1955-64, 1965-84, and 1985-94. Consideration will be given to the more traditional denominational bodies along with nontraditional that have become a part of the religious scene in America in recent history.

RE104 → WORLD RELIGIONS.....3

Discusses religions of mankind set in historical perspective. The course will focus upon the basic teachings of each of the major religions of the world, their founders, geographic distribution and importance in the theological world.

SCIENCE

*SC100 SURVEY OF SCIENCE3

This course is intended to familiarize the student with the methods of scientific discovery and investigation. Students will study phenomena in a variety of scientific fields to become familiar with the scientific process used for explaining phenomena. Students will

also become aware of the effects of science on nature and society. This course includes three hours lecture time.

*SC101 → GENERAL BIOLOGY +.....4

Engages the non-biology major in explorations of the unity and diversity of organisms with particular attention devoted to the commonalities. Students are involved in various investigative simulations and extended laboratory activities. Study begins with the chemical foundation of life and culminates with interactions between organisms and environment. This course combines three hours lecture and one and one-half hours of laboratory time.

*SC103 PHYSICAL SCIENCE +.....5

Is a study of man's physical world emphasizing fundamental universal laws and their implications in modern living through observations and analysis of sensible data. This study may include (but is not limited to) topics in the following areas: astronomy, chemistry, geology, meteorology, and physics. This course combines three hours of lecture and three hours of laboratory time. Prerequisite: Elementary Algebra with a C or better or appropriate Accuplacer/ACT scores.

This course provides a study of the basic landforms and geological processes. Topics include Earth structure and composition, erosional and depositional processes, minerals and rocks, stream flow, glaciation, plate tectonics, and groundwater. This course includes three hours lecture and one and one-half hours laboratory time.

*SC105 GENERAL ASTRONOMY +.....4

This course is an introduction to space science designed to acquaint students with the history of astronomy, the universe, the solar system, the Sun and other stars, the evolution and properties of celestial bodies, and astronomical phenomena. This course includes three hours lecture and one and one-half hours laboratory time.

This course introduces the nature, origin, processes, and dynamics of the Earth's atmospheric environment. Content will focus on: (1) weather systems and processes, (2) seasonal trends, (3) atmospheric circulation, pressure, and moisture, (4) storm development, (5) air pollution, and (6) anthropogenic influences on weather and climate. This course includes three hours lecture and one and one-half hours laboratory time.

*SC109 APPLIED PHYSICS3

The applied physics course is designed to teach the basic concepts of physics, while applying them to practical situations and situations pertaining to wind energy and wind energy generation. Students will use a hands-on approach to study the concepts of force, work, rate, resistance and energy as related to mechanical, fluid, electrical, and thermal systems. Prerequisite: Intermediate Algebra with a C or better or appropriate ACT/Accuplacer scores.

*SC110 → PRINCIPLES OF BIOLOGY I +5

Is a combined lecture and laboratory course for students planning to choose biological sciences as major and take additional courses in biology. Covers contents of basic biochemistry, cell structure and function, molecular biology, and genetics, integrated in an evolutionary perspective. Meets three hours of lecture and three hours of laboratory per week. Equivalent to Biology I for Majors With Lab approved by Kansas Board of Regents for system-wide transfer.

SC111 MICROBIOLOGY LECTURE......3

Is a study of microorganisms with emphasis on bacteria including fundamentals of their morphology, physiology, genetics and relationship to health and disease. (This is a three-hour lecture only class. No lab is included. Students wishing to take Microbiology Lab will also need to enroll in SC112.) Prerequisite: A college level biological science course with a C or better.

*SC112 MICROBIOLOGY LAB +2

Is an extended weekly time period during which students are given the opportunity to demonstrate via specific laboratory procedures, principles of microbial structure, function, and the relationship of microbes to health and disease. This course includes three hours laboratory time. Prerequisite: Microbiology Lecture (SC111) or concurrent enrollment.

This lab is intended as a hands-on approach to learning Earth materials and geological processes. Experiments will include: (1) using the scientific method and science tools to interpret geologic data, (2) examining the cause and effects of geologic hazards, (3) identifying rocks and minerals, (4) simulating stream and coastal processes, (5) assessing groundwater pollution, (6) analyzing geologic maps, and (7) interpreting the geologic history of the Great Plains. This course includes one and one-half hours laboratory time. Prerequisite: Previous credit in Geology lecture and approval from instructor

*SC116 METEOROLOGY LAB +

This lab is a hands-on study of atmospheric processes. Students will apply the scientific method to learn the reason for seasons and the causes of precipitation, weather hazards (tornadoes and hurricanes), atmospheric phenomena (mirages, halos, and rainbows), air pollution, and climate change. This course includes one and one-half hours laboratory time. Prerequisite: Previous credit in Meteorology lecture and approval from instructor.

*SC117 GENERAL BIOLOGY LAB +1

This is a laboratory class that is an opportunity for an extended weekly time period during which students are given the opportunity to demonstrate via specific laboratory procedures, principles of scientific method, cellular biology, enzymatic functions, diversity, evolution, and ecology. This course includes one and one-half

hours laboratory time. Prerequisite: Previous credit in Biology lecture and approval from instructor.

*SC120 → HUMAN ANATOMY & PHYSIOLOGY I +4

Is an introduction to the basic concepts of biochemistry, cytology, histology, and cellular physiology that relate to all tissues, organs and organ systems of the human body. This will include the following organ systems: integumentary, skeletal, muscular, and neural. This course includes three hours of lecture and one and one-half hours of laboratory time.

*SC121 → HUMAN ANATOMY & PHYSIOLOGY II +......4

Is a continuation of topics introduced in Human Anatomy and Physiology I as related to the following organ systems: cardio-vascular, respiratory, gastrointestinal, excretory, endocrine, and reproductive. This course includes three hours of lecture and one and one-half hours of laboratory time. Prerequisite: Completion of or concurrent enrollment in Human Anatomy and Physiology I.

*SC125 HUMAN BODY DISSECTION +.....1

Is designed to give the more advanced student an opportunity for hands-on dissection experience with a human cadaver. This course includes one and one-half hours of laboratory time. Prerequisite: Completion of or concurrent enrollment in Human Anatomy & Physiology I.

*SC126 → ANATOMY AND PHYSIOLOGY +5

Anatomy and Physiology is an introduction to the basic concepts of biochemistry, cytology, histology, and cellular physiology that relate to all tissues, organs and organ systems of the human body. It will include the following organ systems: integumentary, skeletal, muscular, neural, senses, endocrine, circulatory, respiratory, urinary, digestive, and reproductive. This course includes three hours of lecture and three hours of laboratory time.

SC128 PATHOPHYSIOLOGY4

Focuses on pathophysiologic concepts related to the functional and structural changes that accompany disease processes and the application of basic concepts to body systems and selected disease processes. Etiologies, signs, symptoms, courses, and complications of common diseases of the following organ systems are included: neurologic, endocrine, reproductive, hematologic, cardiovascular, lymphati, pulmonary, renal and urologic, digestive, musculoskeletal, and integumentary. This course is a four hour lecture class. This course has no lab. Prerequisite: SC126 Anatomy and Physiology or SC120 Human Anatomy and Physiology I and SC121 Human Anatomy and Physiology II.

*SC130 → GENERAL CHEMISTRY +.....5

Is an introductory course that assumes no previous experience with chemistry. The course includes a basic overview of inorganic, organic and biochemistry. This course includes three hour lecture and three hours laboratory time. Prerequisite: Elementary Algebra with a "C" or better or an appropriate ACT/Accuplacer math score.

*SC131 CHEMISTRY I +.....5

Is an introductory course designed for engineering, allied health and science majors. Fundamental laws of chemistry, atomic theory and structure, chemical calculations, chemical bonding, gases and the kinetic molecular theory, chemical kinetics, acids, bases, and salts are covered in this course. This course includes threee hours lecture and three hours laboratory time. Prerequisite: Intermediate Algebra with a "C" or better or appropriate ACT/ Accuplacer scores.

*SC132 CHEMISTRY II +5

This course will focus on the following topics: properties of solids and solutions, chemical kinetics, chemical equilibrium and applications, acids and bases, spontaneity, entropy, and free energy, thermochemistry, and an overview of organic and biochemistry. This course includes three hours lecture and three hours laboratory time. Prerequisite: Chemistry I with a C or better.

*SC134 ORGANIC CHEMISTRY I +5

Is a study of the general principles of organic chemistry with emphasis on the major types of aliphatic compounds; and introduction to aromatic compounds; spectroscopy and certain biochemically important compounds. This course is designed to meet the needs of students requiring either one semester of organic chemistry or the two semester sequence. This course includes three hours lecture and three hours laboratory time. Prerequisite: Chemistry I and Chemistry II with a C or better.

*SC135 ORGANIC CHEMISTRY II +5

Will be a continuation of Organic Chemistry I. Areas of study will include organic reactions, reaction-specific reagents, mechanisms for reactions, a continued look at functional groups and their nomenclature, and an introduction to biochemical molecules. Concepts learned in the classroom will be applied in the laboratory. This course includes three hours lecture and three hours laboratory time. Prerequisite: Organic Chemistry I with a C or better.

SC137 NATURAL HAZARDS AND DISASTERS3

This course will examine the physical mechanisms that create natural hazards and disasters, explore the geographic distribution of disasters around the globe, and address how humans mitigate against and respond to them. Topics to be covered include tornadoes, equakquakes, tsunamis, volcanoes, floods, hurricanes, heat waves, and droughts, as well as some lesser-known and larger scale phenomena such as the El Nino/La Nina cycle, meteorite impacts, and global climate change. This course includes three hours lecture. This course has no lab. Students wishing to take Natural Hazards and Disasters Lab must enroll in SC138.

*SC138 NATURAL HAZARDS AND DISASTERS LAB +1

This lab will examine the physical mechanisms that create natural hazards and disasters, explore the geographic distribution of

disasters around the globe, and address how humans mitigate against and respond to them. Topics to be covered include tornadoes, earthquakes, tsunamis, volcanoes, floods, hurricanes, heat waves, and droughts, as well as some lesser-known and larger scale phenomena such as El Nino/La Nina cycle, meteorite impacts, and global climate change. This course includes one and one-half hour lab time. Prerequisite: Previous or concurrent enrollment in SC137.

*SC140 → COLLEGE PHYSICS I +5

Is an introductory course covering the general topics of mechanics, static, and dynamic forces, energy, momentum and simple harmonic motion. Depending on the time and level of class preparation other material may be covered during the first semester, particularly heat and thermodynamics. College Physics I is recommended for majors in science and allied health. This course includes three hours lecture and three hours laboratory time. Prerequisite: College Algebra and College Trigonometry with a "C" or better or appropriate ACT/Accuplacer scores.

*SC141 COLLEGE PHYSICS II +5

Is the second half of introductory physics covering the general topics of heat, sound, electricity, light, and modern physics. College Physics II is recommended for majors in science and allied health. This course includes three hours lecture and three hours laboratory time. Prerequisite: College Physics I with a C or better.

*SC142 UNIVERSITY PHYSICS I +.....5

Is an introductory course covering the general topics of mechanics and heat and is recommended for majors in science and engineering. Extended laboratory are required as this course combines three hours of lecture and three hours of laboratory time. Co-requisite: Analytic Geometry and Calculus I.

*SC143 → UNIVERSITY PHYSICS II +.....5

Is the second half of introductory physics covering the general topics of sound, electricity, light, and modern physics. University Physics II is recommended for majors in science and engineering. This course includes three hours lecture and three hours laboratory time. Prerequisite: University Physics I with a "C" or better.

SC146 ENVIRONMENTAL SCIENCE AND CONSERVATION3

An interdisciplinary study from the perspective of Environmental Science. This course will examine the use of natural resources across the planet, with emphases on conservation, resource management, and significant human impacts on natural systems. Major topics covered include an introduction to Earth systems science and environmental science; agriculture, soils, biotechnology, and the production of food; the atmosphere, pollution, and climate change; the hydrosphere, water quality, and aquaculture; biodiversity, ecosystems and environmental ecology; natural resource extraction, the production of energy; and sustainable solutions. Special attention will be given to analyzing these topics in light of current events and governmental policy at the local,

state, and federal levels. This course includes three hours lecture. This course has no lab. Students wishing to take Environmental Science and Conservation Lab must enroll in SC147.

An interdisciplinary study from the perspective of Environmental Science. This course will examine the use of natural resources across the planet, with emphases on conservation, resource management, and significant human impacts on natural systems. Major topics covered include an introduction to Earth systems science and environmental science; agriculture, soils, biotechnology, and the production of food; the atmosphere, pollution, and climate change; the hydrosphere, water quality, and aquaculture; biodiversity, ecosystems and environmental ecology; natural resource extraction, the production of energy; sustainable solutions. Lab work will consist of observation and demonstration, experimentation with such materials as soil, water quality testing kits, and lab report writing; topics as described above. This course includes one and one-half hours of laboratory time.

SC151 → PRINCIPLES OF BIOLOGY II +......

A combined lecture and laboratory course for students planning to choose majors of biological sciences and take additional courses in biology. Covers contents of basic plant and animal morphology and physiology, biodiversity and phylogeny, population genetics, and principles of evolution and ecology. Meets three hours of lecture and three hours of laboratory per week. Equivalent to Biology II for Majors with Lab approved by Kansas Board of Regents for system-wide transfer.

SC199 GENERAL ZOOLOGY +4

In this class, students are given the opportunity to demonstrate an understanding of each Phyla of the Kingdom Animalia. Students must determine characteristics of the Phyla based on morphological, reproductive, behavioral, and ecological differences enhancing an understanding of the diversity of species in the animal kingdom. Students will have to understand the classification system and utilize taxonomy to differentiate organisms. In the laboratory, light microscopy and dissection will be utilized to determine structural and morphological characteristics in conjunction with an ability for identification. This course includes three hours of lecture and one and one-half hours of laboratory time. Prerequisite: Principles of Biology I.

SC220 COOPERATIVE EDUCATION INTERNSHIP 1-6 See CA220.

- * A lab fee will be assessed for these courses.
- +These courses are considered lab courses.

SOCIAL SCIENCE

SSO99 PERSONAL ASSESSMENT AND PLANNING.......1

Allows students to assess their skills, aptitudes, interests, and values. It helps students: 1) determine what obstacles are interfering with their learning, 2) devise a plan to overcome these obstacles, and 3) gain the self-confidence and self-determination necessary for college success. All students with academic probation status are required to enroll in this course. Students may not drop or withdraw from this course without prior approval from the Vice-President of Academic Affairs.

SS100 COLLEGE SKILLS AND RESOURCES1

Familiarizes incoming Cloud students with the campus, its facilities, procedures and regulations. Students are assisted in 1) defining their educational goals, 2) identifying courses and experiences that can help fulfill their goals and 3) accessing the support services necessary to achieve their goals. Required for first-time college students enrolled in nine or more credit hours.

SS101 → GENERAL PSYCHOLOGY......3

A survey of methods, facts, and principles relating to basic psychological processes. Major topic areas include neural bases of behavior, learning and motivation, psychosocial development and abnormal psychology, human cognition, cognitive development, individual differences and social psychology. The classroom lab activities provide experience with methods of research and data collection.

SS102 ABNORMAL PSYCHOLOGY3

Presents an overview of deviant behavior study, the concept of differential diagnosis categories of deviant behavior, an overview of the major theoretical models explaining deviant behavior and a discussion of major psychological and psychiatric models for treating and modifying deviant behavior.

SS103 SOCIAL PSYCHOLOGY3

Is an introduction to the discipline that utilizes the scientific method to attempt to understand and explain how the individual's behavior, thoughts, and feelings are influenced by the actual, imagined or implied presence of others. Analysis of the self, culture and gender will be given special emphasis in regard to their direct and indirect influence upon human behavior.

SS105 → HUMAN GROWTH AND DEVELOPMENT......3

This course is a study of the self and steps which lead to psychological maturity. The class will include an analysis of our culture in relationship to the needs for personal growth and will study the individual from conception through death. The course will cover physical, mental, and cultural needs for a rich and satisfying life.

SS106 MARRIAGE AND FAMILY......

Is a study of mate selection, marriage, and the family from the psychological, sociological, biological, and developmental points of view. Included are the relationship of values to marriage, sex roles, dating and engagement, family planning, parenthood, family economics, communication and marital growth and fulfillment, and death in the family.

SS107 HUMAN SEXUALITY3

Is an introductory course focusing on the biological, psychological, social and legal aspects of human sexuality with the major emphasis on the development of wholesome attitudes toward the masculine and/or feminine elements of one's unique development.

SS113 HUMAN RELATIONS3

Is an experience-oriented class which is designed to assist persons to focus upon themselves and others. Utilizing group interaction and discussion, emphasis is placed upon the development of listening and communication skills, conflict management, personal and interpersonal awareness, goal setting, and effective time management.

SS125 INTRODUCTION TO CULTURAL ANTHROPOLOGY3

Is designed to introduce students to the extraordinary diversity of human cultures. This variation is viewed as a reflection of each society's continuing need to adapt successfully to local, social and environmental conditions. While the course focuses chiefly upon primitive and nonindustrialized societies today (i.e., those living in the "ethnographic present"), past cultures are also surveyed from the perspectives of physical anthropology and archaeology.

ss127 [▶] CHILD PSYCHOLOGY.....3

Child psychology is designed to cover the developmental aspects of physical, neurological, cognitive, psychosocial and personality development of the child from conception through adolescence. Research methods and genetic, behavioral and environmental theory will be included. This course will explore current impacts on behavior and development.

SS129 → INTRODUCTION TO SOCIAL WORK3

This course aims to assist students gain knowledge about the nature of social work practice including its values, ethics, roles and activities; understand some of the differences between conventional and progressive approaches to social work; understand more about themselves in regard to social work; and gain familiarity with the work done by social workers in the community and the world.

ss130[™] introduction to sociology......3

Is designed as an introduction to the study of the structure and function of human groups, particularly those which occur in contemporary industrialized cultures. The relationships between

the individual and his society, culture and society, and the social dynamics of institutions are investigated.

This course seeks to expose students to historical and contemporary issues related to diversity, race, and ethnicity in the United States. The course will utilize different sociological perspectives to critically analyze reacial and ethnic relations. The course will highlight concepts such as power, oppression, stereotypes, inequality, prejudice, and social stratification. The course examines social policy as it relates

Is an introduction to the structure and function of the United States Government and the political behavior of the American people.

SS141 U.S. GOVERNMENT: STATE AND LOCAL3 Is a study of the structure and function of state and local governments with special attention given to the governments in Kansas.

SS142 CURRENT POLITICAL ISSUES......3

An introduction to contemporary political issues and the problems that concern American society. This course will look at current events that are shaping current political policy at the local, state and national levels.

This course focuses on concepts and patterns of political behavior within societies, and the reasons behind these patterns. The aim of this course is to furnish students with the intellectual tools to understand the future, as well as current events in their society and around the globe.

SS201 SOCIAL PROBLEMS.....3

This course involves the application of sociological concepts and principles to the description and critical analysis of major social problems of modern societies. A founding assumption to this course is that it is crucial for people to be able to subject their own society to scrutiny in order to arrive at intelligent assessments of particular social problems. It is equally important that people understand the general patterns of societal development that often cause or aggravate these problems. Within this framework, this course will examine various problems including those of wealth and poverty, class stratification, race and ethnicity, crime and deviance, gender, and problems of our consumer society.

SS220 COOPERATIVE EDUCATION INTERNSHIP...... 1-6 See CA220.

^{*} A lab fee will be assessed for these courses.

SOLAR ENERGY

*SE100 INTRODUCTION TO SOLAR ENERGY3

Introduction to Solar Energy students will be exposed to many facets of the solar industry. This course will cover basic principles of solar energy conversion. The solar industry worldwide is growing every year and the cost of the energy has been declining because of the efficiency of new technologies. Class topics will not only cover the mechanical, technical, and electrical aspects of solar energy but also environmental, social, political and economic aspects of solar energy.

*SE101 SOLAR ENERGY FUNDAMENTALS......3

Solar Energy Fundamentals will cover the solar industry, composition of PV systems, basic terminology for the industry, importance of the sun's insolation, and the effects of solar shading. The course will also examine the specifics of a panel at the component level and the importance of panel selection.

*SE102 SOLAR ENERGY DESIGN3

Solar Energy Design students will learn real world knowledge, experience, and understanding of solar photovoltaic and solar power systems. This course will cover designing, estimation, bidding, submitting, permitting, building, and passing inspections of PV systems.

*SE103 SOLAR ENERGY OPERATIONS & MAINTENANCE......3

Solar Energy Operations and Maintenance course will cover analyzing results of test tools used during commissioning, performance evaluations, operations, maintenance, and troubleshooting. Tools include insulation resistance testing, IV curve tracing, infrared cameras, and thermal imaging. Students will learn the proper set-up, use, and function of the tools and the proper ways to evaluate the system. The course will also include the proper ways to troubleshoot and locate common faults of PV systems using tools and methods.

*SE201 ADVANCED SOLAR ENERGY DESIGN3

Solar Energy Advanced System students will be exposed to the specific techniques in design of a solar project. This course will cover customer expectations and characteristics specific to a site. Class topics will also cover the mechanical, technical, and electrical design requirements of solar PV systems.

*SE202 ADVANCED SOLAR ENERGY INSTALLATION3

Solar Energy Advanced Installation will cover all aspects of the installation of a solar PV project. The course will explore the safety requirements of the solar industry and hazards associated. It will also cover the proper regulations and methods required by the NEC and other governing bodies.

*SE203 SOLAR ENERGY SYSTEM COMMISSIONING.......3 Solar Energy System Commissioning students will learn the proper procedures in commissioning of a solar PV system. This

proper procedures in commissioning of a solar PV system. This course will cover equipment use, proper inspection, conducting proper tests, and verification of proper system operation.

*SE204 SOLAR ADVANCED OPERATIONS & MAINTENANCE......3

Solar Energy Advanced Operations and Maintenance course will learn methods for verifying system operation and performance in order to diagnose and correct problems. Students will perform preventative maintenance on PV systems in real life situations and determine corrective actions to take.

* A lab fee will be assessed for these courses.

UNMANNED AIRCRAFT SYSTEMS

*UA100 INTRODUCTION TO SUAS......3

This course is an introduction to Unmanned Aerial Systems. It will cover the safety requirements to operate in the National Air Space in the United States. It will also evaluate the role of the FAA and local laws which govern the operation of UAV's. Other organizations which work to keep citizens and operators safe and efficient in their operation of UAV's will also be introduced. Through the course, the different types of drones and applications in today's world will be explored.

*UA110 SUAS GROUND SCHOOL3

The sUAS Ground School Course sets a sturdy foundation of required aeronautical knowledge for remote pilots of UAS less than 55 pounds. The curriculum addresses all pertinent aeronautical knowledge factors outlined by the FAA for the Unmanned Aircraft General (UAG) examination and augments those with safety concepts and practices to develop well-informed and responsbile remote pilots. Students who successfully complete the course receive a certificate of completion from ARGUS Unmanned and are well prepared to pass the UAG exam.

*UA140 SUAS APPLICATIONS3

Unmanned Applications course objectives is to provide an understanding of how unmanned aircraft are used to accomplish a variety of tasks in a complex environment and how remote pilots apply UAS technology for commercial, scientific, and governmental purposes while respecting both the physical and regulatory limitations. Additionally, this course creates a foundation for the concept of professionalism and ethics as they apply to remote pilots.

sUAS sUAS Personnel, Safety, and Crew Resource Management course objective is to provide the basic knowledge needed to integrate drones into the National Airspace and to develop a workflow

for UAV missions. The importance of safety and mitigating risk is of paramount importance for UAV's to be considered a viable means of collecting data in the National Airspace. This course is not intended to be a management of personnel but a framework to develop safe, efficient, workflow for all UAV missions.

*UA201 SUAS COMMAND, CONTROL, & COMMUNICATIONS......3

Command, Control, and Communications will be covered as it relates to the team operation of a UAS. Students will learn the various types of systems and controls required to operate a UAV in the National Air Space. They will learn the devices needed and the reliability of the differing technologies for safe and effective flight. Both hardware components and software control solutions will be covered.

*UA210 SUAS SYSTEMS AND CONCEPTUAL DESIGN3

This course will introduce the components required for remote controlled flight by a multi-rotor vehicle. Within the course the structural pieces of the UAV will be constructed by 3D printer techniques and all components which cannot be printed will be added to the design with a finished flying UAV by the end of the course. Through this process students will learn the various laws of physics and construction and repair techniques to create an airworthy multi-copter.

WIND ENERGY

*WE100 INTRODUCTION TO WIND ENERGY......3

Students will be exposed to the many facets of the wind industry. This course will cover basic principles of wind energy conversion. The wind industry world wide is growing faster than any other energy source. Class topics will not only cover the mechanical, technical, and electrical aspects of wind energy but also environmental, social, political and economic aspects of wind energy.

*WE102 ENERGY INDUSTRY FUNDAMENTALS3

Energy Industry Fundamentals provides a broad understanding of the electric and natural gas utility industry and the energy generation, transmission, and distribution infrastructure, commonly called the "largest machine in the world," which forms the backbone for the industry. The course includes business models, regulations, types of energy and their conversion to useable energy such as electric power, how generated power is transmitted and distributed to the point of use, emerging technologies, and the connection to careers in the energy industry.

*WE105 EMPLOYABILITY SKILLS, SAFETY, BLUEPRINT READING......3

A course designed specifically for the wind energy students. Each of the course's topics will be presented for approximately a third of the semester. Employability Skills will provide the student with lifelong career planning skills and employability skills necessary to secure a career in the wind industry. Safety will cover the necessary topics of OSHA safety training in the electrical industry.

Blueprint Reading will provide the student with communication skills in the areas of reading blueprints for development, construction, operation, maintenance, and electrical power systems.

*WE110 ELECTRICAL THEORY3

Students will be exposed to many facets of electrical energy. This course will cover basic electrical circuit information such as voltage, current, resistance, series circuits, parallel circuits, combination circuits, conductors, insulators, electrical power, sources of electrical energy, magnetism, meters, AC/DC current, and other topics that are appropriate.

*WE120 HYDRAULICS......3

Hydraulics is a study dealing with the mechanical properties of liquids. Hydraulic topics cover concepts such as hydraulic pumps, actuators, accumulators, cylinders, control valves, check valves, flow control valves, directional control valves, pressure control valves, motors, filters, coolers, and reservoirs.

*WE130 WIND PUBLIC/LANDOWNER RELATIONS3

Educating the public and/or landowners on the advantages and disadvantages of wind energy is a necessary step in the development of a wind project. Information on economic and environmental issues will be necessary from the initial development period to the completion of the wind project. Students will learn how to answer the Myth vs. Fact questions concerning wind farm development. Procedures for obtaining the proper permits and access rights to enter property to assess the wind resource will be addressed. Additionally, students will learn about setback constraints, archaeological restrictions, aviation obstruction marking requirements, and other organizational and governmental regulations affecting wind power project development.

*WE150 MECHANICAL SYSTEMS3

Mechanical Systems will expose the wind energy students to the installation, use, maintenance, and troubleshooting of mechanical drive components. This course will cover basic principles of wind energy mechanical systems with practical hands-on tasks which will be encountered in the wind industry.

*WE202 ELECTRICAL POWER DELIVERY3

This course will cover the entire scope of electric power delivery from generation to transmission and distribution to electrical loads. Students will learn about the generation systems that convert resources into electrical power. Underground and overhead transmission cables, distribution lines, and substations will be studied. The students will also learn about the interconnection of electrical energy into the electrical grid, and how it is distributed throughout the grid to electrical loads. General transformer function and operation will be discussed, as well as protective relaying and circuit breaker types. A combination of site visits to operating generation plants, substations, and electric utility companies will reinforce the classroom material.

*WE205 WIND BUSINESS3

Wind Business is designed to learn about topics in business as they apply to the wind industry. Students will become familiar with different manufacturers of wind turbines, warranties, and service agreements. Knowledge of the supply and demand of wind equipment is necessary when developing a wind project. Students will learn about dispatchable and non-dispatchable resources, why curtailment is sometimes necessary, and capacity factor. Information related to the construction process of a wind farm will be included in this course.

*WE210 ELECTRONICS......3

The study of the flow of charge through various electrical devices and the transmission of power and information. This course will cover principles of the electronics fields which will be necessary to understand how electronic components are used to make complex electrical systems. These electrical systems are the backbone of the electrical energy industry. Prerequisite: Electrical Theory with a C or better. Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

Students will learn how circuit breakers and fuses are employed to ensure optimal system protection from system faults and overload conditions. Proper installation and operation of switching mechanisms, fuses, and single-phase and three-phase circuit breakers and reclosers will be covered through lecture and handson experience. Protective relaying, sectionalizing, and remote monitoring and control through SCADA systems will also be covered. Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

WE220 COOPERATIVE EDUCATION INTERNSHIP 1-6

See CA220. Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

*WE225 MOTORS, GENERATORS, PLCS3

Provides students with the basic understanding of the principles of motors, generators, motor controls, and programmable logic controllers (PLCs). Both electromechanical and solid state electronic control devices are covered in this course. Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

*WE227 PLCs (PROGRAMMABLE LOGIC CONTROLLERS)3

The PLC course will provide a broad-based understanding of important PLC principals and concepts. You will understand how to connect to PLC hardware, create ladder logic programs, explore applications of PLC controls, and see how they function in

various control systems. You will also study various programming conventions, as well as practical issues about automation controls and components. Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

*WE230 SUBSTATION & VOLTAGE REGULATION......3

A study of substations, capacitors, voltage regulators, boost and buck boosters; practical experience in substation grounding, inspections, substation maintenance; operation and installation of high side fuses, power transformers, substation buswork, and transfer switches; methods of voltage regulation, and Supervisory Control and Data Acquisition (SCADA). Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

*WE240 GIS/GPS......3

The GIS/GPS course is designed to provide a basic working knowledge of Geographical Information Systems and Global Positioning Systems as they relate to the operation of small UAVs. Upon completion of this course, the student will understand the timeline of development for GIS, GPS, and UAVs. The student will be able to demonstrate necessary software configuration, operation and maintenance of a UAV for purposes of aerial imaging. The course will be taught with the intent of expanding one's ability to complete inspection of wind turbine blades, power lines and substations, agricultural surveys and the integration of sports and event photography.

*WE250 DATA ACQUISITION AND COMMUNICATIONS .. 3

This course will give students information on how resource data is collected and analyzed for the use in the generation of electricity. Analog-to-digital data conversion will be studied, as well as instrument calibration. Students will also learn how data is communicated to assess power production of generation systems. The function of Supervisory Control and Data Acquisition (SCADA) systems will be discussed in detail. Students must be admitted to the Wind Energy Technology Program to enroll in this course.

*WE255 AIRFOILS AND COMPOSITE REPAIR3

Students will be exposed to many facets of composites to build concrete foundations and blades on a wind turbine. This course will cover basic principles of the wind turbine blade design, blade composition, and base construction. The airfoils portion of this class will cover the aero-dynamic basics of the wind turbine blades using the wind to convert one form of energy to another. Composite materials will be studied as they are used in the manufacturing processes of wind turbine components.

Applied Airfoil students will be exposed to many facets of wind turbine blades from the wind turbine industry. Reliability of wind

turbines is directly related to the quality and service of the rotor and blades. Documentation of defects from manufacturing as well as current stress is vital to determining blade length of service and projected maintenance schedules. This course will cover fundamental principles of mold construction, blade construction, quality control, inspection, and materials used for wind turbine blades.

*WE260 WIND TURBINE SITING......3

Students will be exposed to many facets of the proper placement (siting) of individual wind turbines as well as wind farms. This course will cover basic principles of how to find the best site and if it is suitable for wind energy. Class topics will cover the physical restrictions, institutional restrictions, wind turbine noise, placement near the grid, spacing of turbines, social aspects of wind turbines, and environmental issues associated with wind turbines.

*WE262 BLADE REPAIR OPERATIONS......4

Blade Repair Operations will introduce the students to industry standards of safety, operation, and maintenance of wind turbines and project operations. Students will be trained on the proper techniques and safety to gain access to the blades of a wind turbine for inspection and repair procedures. Specific training on suspended access equipment will allow student to safely inspect/repair wind turbine blades. Safety is at the heart of everything we do in this training program. Students will also understand the concept of day to day operations of a blade repair technician. Students will become familiar with the tools and equipment used and learn the value of teamwork as it applies to operations and repair of wind turbine blades. Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

*WE265 FIELD TRAINING & PROJECT OPERATIONS......5

This course will introduce students to industry standards of safety, operation and maintenance of wind turbines and project operations. Students will also benefit from field trips to operational projects to gain perspective of day to day operations of a wind turbine generation facility. Students must be admitted to the Wind Energy Technology Program or permission of the Department Chair to enroll in this course.

*WE270 TRANSFORMER THEORY......3

A transformer is a device used to transform (change) electrical power from one circuit to another. This course will cover the basics of magnetism, induction, windings, turns ratios, step-up transformers, step-down transformers, efficiencies, power transmission, single-phase power, three-phase power, delta windings, wye windings, and other transformer topics. Students must be admitted to the Wind Energy Technology Program to enroll in this course.

*WE280 WIND ENERGY TECHNOLOGY INTERNSHIP.....4

The CCCC WET Internship program allows students to gain real world experiences with a wind energy or electrical related industrial company. Internships provide a bridge between classroom learning and full-time employment. Students work as a team with other competent employees who help guide the students to develop job skill sets necessary for employment in the area of electrical generation and distribution. An internship enables students to experience valuable work experience to help make future career choices.

- * A lab fee will be assessed for these courses.
- The courses noted with this symbol qualify for guaranteed transfer. Visit www.kansasregents.org/transfer articulation for more information.



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