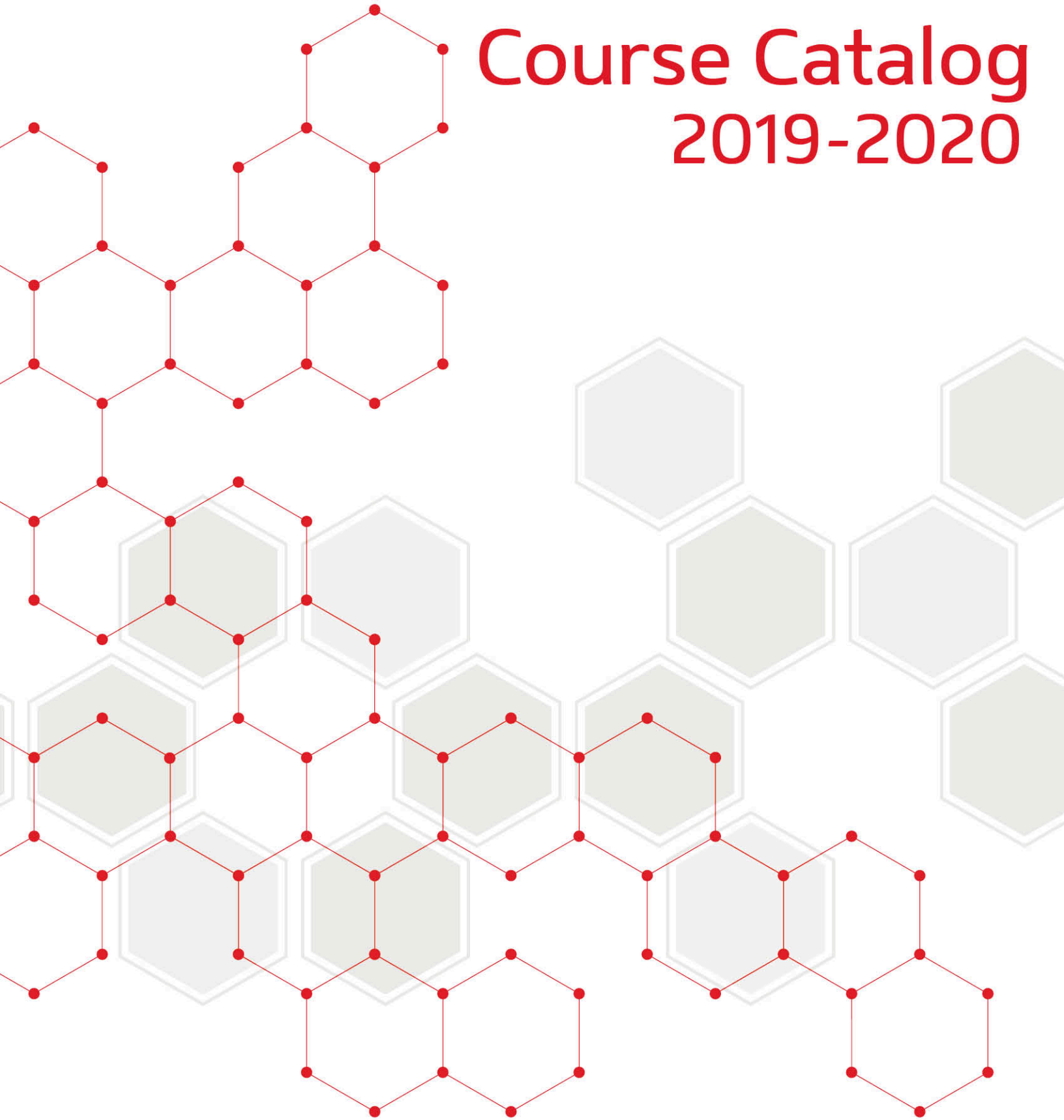




SOUTHEASTERN
COMMUNITY COLLEGE

Course Catalog 2019-2020



Southeastern Community College

2019-2020 Course Catalog

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Revised: 6/1/2023 5:21p.m.

SCC Mount Pleasant Center
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SCC Fort Madison Center
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Fort Madison, IA 52627
(319) 208-5000

Graduation Requirements for Associate of Arts Degree

To graduate with an Associate of Arts degree, students must have a 2.00 grade point average or above and have successfully completed sixty (60) semester hours of credit in courses as designated below. In addition, students must meet the requirements specified in the following categories:

Required Credit Hours

THE COLLEGE EXPERIENCE

The College Experience: [SDV-108](#) 1

COMMUNICATIONS

COMPOSITION: [ENG-105](#), 106 6

SPEECH: [SPC-112](#) or 101 3

HUMANITIES - Select from at least 2 different departments 9

ART: [ART-101](#), 109, 120, 123, 133, 134, 138, 143, 144, 154, 157, 173, 174, 184, 203, 204, 208, 922, 928

DRAMA:[DRA-101](#), 110, 130, 141, 142, 145, 165

ENGLISH: [ENG-221](#), 929

HISTORY & WORLD CIV:[HIS-131](#), 132, 151, 152, 211, 231, 251, 257, 266, 268, 271

HUMANITIES: [HUM-114](#), 145, 287

JOURNALISM: [JOU-120](#), 121

LITERATURE: [LIT-101](#), 105, 120, 121, 122, 125, 131, 150, 151, 184, 204, 209

MASS MEDIA STUDIES: [MMS-111](#)

MUSIC: [MUA-101](#), 104, 106, 108, 109, 120 through 127, 143, 146, 170, 173, 180, 183/[MUS-100](#), 102, 120, 121, 135, 136, 140, 150, 162, 204, 220, 221, 235, 236

PHILOSOPHY: [PHI-101](#), 105, 110, 122

RELIGION: [REL-101](#)

SPANISH: [FLS-129](#), 141, 142, 231, 232, 922

SPEECH: [SPC-115](#)

SOCIAL SCIENCE - Select from at least 2 different departments 12

ECONOMICS: [ECN-120](#), 130

GEOGRAPHY: [GEO-121](#), 141, 161, 922

HISTORY & WORLD CIV: [HIS-131](#), 132, 151, 152, 211, 231, 251, 257, 266, 268, 271

POLITICAL SCIENCE:[POL-110](#), 111, 112

PSYCHOLOGY: [PSY-102](#), 111, 121, 211, 226, 227, 228, 241, 251

SOCIOLOGY: SOC-110, 114, 115, 120, 136, 160, 161, 186, 207, 212, 220, 221, 230, 240, 251, 270, 922

MATH & SCIENCE - Must include one math and one laboratory science course 10

MATHEMATICS: MAT-110, 112, 113, 127, 128, 140, 149, 156, 165, 170, 210, 216, 219, 227

LAB SCIENCE: BIO-105, 112, 113, 138, 163, 168, 173, 186, 248, 252/CHM-122, 165, 175, 263, 273/ENV-111/PHS-120, 151/PHY-106, 160, 161, 212, 222/SCI-123

NON-LAB SCIENCE: BIO-151, 277/PHS-165, 185/ SCI-922, 928

CULTURAL AWARENESS - Minimum of 3 hours 3

ART-101, 203, 204, 208/DRA-101, 110, 130/ENG-221/FLS-141, 142/HIS-211, 257/HUM-114/LIT-120, 121, 122, 131, 209/MUS-100, 204/PHI-101, 105, 122/REL-101/SOC-186, 212, 851/SPC-120

ELECTIVES 16

Once category requirements are met, any course from the above discipline areas may be applied to elective credits. Students should plan their elective courses according to their college major if they are planning to transfer on for a four year degree.

Information on suggested coursework is available in the Enrollment Services office.

TOTAL 60

Criminal Justice Transfer Major - AA

The Criminal Justice Transfer Major is designed to prepare students for careers in several areas of the administration of justice. Program graduates find jobs with local police departments, sheriff's offices, the state highway patrol, federal/state narcotics agencies, correctional institutions and state and local probation and parole agencies.

NOTE: Students who have a criminal background history may complete the program. However, these students will have serious difficulty obtaining an internship or employment.

This Transfer Major Guided Pathway is designed to seamlessly transfer to the Criminal Justice Bachelor's degrees at the Iowa Regent Institutions: UNI, ISU, and UI.

SCC has established 2+2 articulation agreements with four-year institutions for this transfer major. Depending upon where you want to transfer, your SCC coursework may differ from the sample given. Contact your enrollment specialist to explore which courses you should take.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I		Credit
CRJ-100	INTRODUCTION TO CRIMINAL JUSTICE	3
ENG-105	COMPOSITION I	3
POL-111	AMERICAN NATIONAL GOVERNMENT	3
SDV-108	THE COLLEGE EXPERIENCE	1
SOC-110	INTRODUCTION TO SOCIOLOGY	3
SOC-230	JUVENILE DELINQUENCY	3
Semester Total.....		16

Spring Semester I		Credit
CRJ-130	CRIMINAL LAW	3
ENG-106	COMPOSITION II	3
MAT-156	STATISTICS	3
SCI-123	FORENSIC SCIENCE	4
SOC-240	CRIMINOLOGY	3
Semester Total.....		16

Fall Semester II		Credit
CRJ-120	INTRODUCTION TO CORRECTIONS	3
CRJ-132	CONSTITUTIONAL LAW	3
CRJ-141	CRIMINAL INVESTIGATION	3
HUM-114	MULTICULTURAL PERSPECTIVES	3
PHS-185	INTRODUCTION TO EARTH SCIENCE	3
Semester Total.....		15

Spring Semester II		Credit
HIS-211	MODERN ASIAN HISTORY	3
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
PHI-105	INTRODUCTION TO ETHICS	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SPC-112	PUBLIC SPEAKING	3
Semester Total.....		15

Program Total..... 62

Where will this take me?

- Baliff
- Corrections Officer
- Federal/State Law Enforcement Agent
- Police Officer
- Rehabilitation Counselor
- Sheriff's Deputy

Instructor and Staff

Cindy Shireman
 Professor
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 BA, University of Iowa
 MA, University of Iowa
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Southeastern Community College values diversity in all its forms. Please visit <https://www.scciowa.edu/non-discrimination-statement.aspx> to view our non-discrimination statement. For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit SCC's financial aid website at <http://www.scciowa.edu/admissions/costaid/finaid/gainemp.aspx>

Graduation Requirements for Associate of Science Degree

To graduate with an Associate of Science degree, students must have a 2.00 grade point average or above and have successfully completed sixty (60) semester hours of credit in courses as designated below. In addition, students must meet the requirements specified in the following categories:

	Required Credit Hours
THE COLLEGE EXPERIENCE	
<i>The College Experience:</i> SDV-108	1
<hr/>	
COMMUNICATIONS	
<i>COMPOSITION:</i> ENG-105 , 106	6
<i>SPEECH:</i> SPC-112 or 101	3
<hr/>	
HUMANITIES - Select from at least 2 different departments	6
<i>ART:</i> ART-101 , 109, 120, 123, 133, 134, 138, 143, 144, 154, 157, 173, 174, 184, 203, 204, 208, 922, 928	
<i>DRAMA:</i> DRA-101 , 110, 130, 141, 142, 145, 165	
<i>ENGLISH:</i> ENG-221 , 929	
<i>HISTORY & WORLD CIV:</i> HIS-131 , 132, 151, 152, 211, 231, 251, 257, 266, 268, 271	
<i>HUMANITIES:</i> HUM-114 , 145, 287	
<i>JOURNALISM:</i> JOU-120 , 121	
<i>LITERATURE:</i> LIT-101 , 105, 120, 121, 122, 125, 131, 150, 151, 184, 204, 209	
<i>MASS MEDIA STUDIES:</i> MMS-111	
<i>MUSIC:</i> MUA-101 , 104, 106, 108, 109, 120 through 127, 143, 146, 170, 173, 180, 183/ MUS-100 , 102, 120, 121, 135, 136, 140, 150, 162, 204, 220, 221, 235, 236	
<i>PHILOSOPHY:</i> PHI-101 , 105, 110, 122	
<i>RELIGION:</i> REL-101	
<i>SPANISH:</i> FLS-129 , 141, 142, 231, 232, 922	
<i>SPEECH:</i> SPC-115	
<hr/>	
SOCIAL SCIENCE - Select from at least 2 different departments	6
<i>ECONOMICS:</i> ECN-120 , 130	
<i>GEOGRAPHY:</i> GEO-121 , 141, 161, 922	
<i>HISTORY & WORLD CIV:</i> HIS-131 , 132, 151, 152, 211, 231, 251, 257, 266, 268, 271	
<i>POLITICAL SCIENCE:</i> POL-110 , 111, 112	

PSYCHOLOGY: **PSY**-102, 111, 121, 211, 226, 227, 228, 241, 251

SOCIOLOGY: **SOC**-110, 114, 115, 120, 136, 160, 161, 186, 207, 212, 220, 221, 230, 240, 251, 270, 922

MATH & SCIENCE - Must include one math and one science course 20

MATHEMATICS: **MAT**-127, 128, 140, 149, 156, 165, 170, 210, 216, 219, 227

LAB SCIENCE: **BIO**-112, 113, 138, 163, 168, 173, 186, 248, 252/**CHM**-165, 175, 263, 273/**PHY**-160, 161, 212, 222

CULTURAL AWARENESS - Minimum of 3 hours 3

ART-101, 203, 204, 208/**DRA**-101, 110, 130/**ENG**-221/**FLS**-141, 142/**HIS**-211, 257/**HUM**-114/**LIT**-120, 121, 122, 131, 209/**MUS**-100, 204/**PHI**-101, 105, 122/**REL**-101/**SOC**-186, 212, 851/**SPC**-120

ELECTIVES 15

Once category requirements are met, any course from the above discipline areas may be applied toward elective credits. Students should plan their elective courses according to their college major if they are planning to transfer on for a four year degree. Information on suggested coursework is available in the Enrollment Services office.

TOTAL 60

Admissions Information

The rules, policies, procedures, and fees described herein may be changed by the authorities of this institution without advance notice and without commitment to such original rules, policies, procedures, and fees deemed necessary to change.

General Admissions Policy

The basic expectation of students entering the college credit program is a desire to learn. The college provides educational opportunities for a wide variety of achievement levels and has established realistic entrance standards for each level. These standards may include mandatory placement.

Non-Discrimination Statement

It is the policy of Southeastern Community College not to discriminate on the basis of race, color, national origin, sex, disability, age, employment, sexual orientation, gender identity, creed, religion, and actual or potential parental, family or marital status in its programs, activities, or employment practices as required by the Iowa Code §§ 216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681 – 1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

Individuals having questions or complaints related to compliance with this policy should contact Tina Young, Title IX / Equity Coordinator, Southeastern Community College, 1500 W. Agency Road, West Burlington, IA 52655, email tyoung@scciova.edu, phone number (319) 208-5101, fax (319) 208-5005 or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 W. Madison, Suite 1475, Chicago, IL 60661, phone number (312) 730-1560, fax (312) 730-1576.

Students with Disabilities

It is the policy of SCC to comply with the access provisions of the state and federal civil rights legislation for persons

with disabilities. Southeastern offers reasonable accommodations to encourage and ensure that persons with disabilities have equal access to education. Through disability services, accommodations are made available to qualified students with a documented disability. It is the recommendation of the Disability Services Coordinator that students contact the office as soon as possible to self-identify early so that they can work together to determine eligibility, identify issues and get reasonable accommodations in place. Each individual's needs and abilities are evaluated in accordance with ADA. To be eligible the student can forward the Disability Student Intake application and documentation of his/her disability to the Disability Services Coordinator. This information can be obtained from the Disability Services Coordinator and/or from the Disability Services Manual that is located at the webpage www.scciova.edu/academics/disserv.asp. The Student Intake Application is on pages 25-27 and the Medical Professional Guidelines for Verifying a Disability are on page 31-33. You can self-report at any time to the Disability Services Coordinator, but it is strongly encouraged that you have everything that you need in place and ready when you begin classes at the start of each semester. For further information or to arrange for accommodations, call (319) 208-5167.

Mandatory Placement

Southeastern Community College has adopted mandatory placement standards for English, reading, and mathematics. All full-time and all part-time degree-seeking students must complete the Next-Gen Accuplacer, Accuplacer, ALEKS, or ACT and WritePlacer before enrolling in classes.

Assessment scores are valid for two years provided the student has been continuously enrolled. Students with scores older than two years will need to test again. Students with scores below an established level will be required to enroll in developmental course(s) in their first term of enrollment. Several career education programs also have minimum standards for admission and/or acceptance.

Program and course admission standards are available in the Enrollment Services Office, West Burlington (319) 752-2731 x5017, admoff@scciova.edu

Keokuk (319) 524-3221 x1929, sadmoff@scciova.edu

Specific Admissions Requirements Arts and Sciences/Career Education Curricula

The minimum requirements for admission as a regular student to programs in either the Arts and Sciences Division or Career, Technical and Health Division shall be graduation from an approved secondary school, its equivalent (determining equivalency of a secondary school diploma shall be consistent with the practice employed by the three state institutions for higher education in Iowa) or demonstrated interest, aptitude, and the ability to benefit from coursework offered by the curricula.

Health Career Programs

Students entering health career programs are expected to maintain a high standard of ethical and professional behavior throughout their courses of study. Characteristics of honesty, integrity, commitment, safety and confidentiality are essential for program success. It is also expected that students will maintain regular attendance in classroom and clinical assignments.

Students must maintain a high degree of professional behavior with patients and families during clinical assignments. All students will be required to pass a mandatory background check. In addition to meeting the admissions requirements for the college, students entering health career programs must meet additional program admissions requirements. All health career programs require students to earn a grade of "C" (2.0) or above in all coursework within the program for which they are applying. In addition, students must have standardized placement scores completed within 24 months prior to the date of enrollment.

Admissions/Enrollment Prior to High School Graduation

Through agreements with area high schools, high school students who meet requirements as outlined in Senior Year Plus legislation have the opportunity to take college courses prior to high school graduation. Eligible courses are outlined in agreements between each area high school and SCC.

Upon completion of the enrolled course(s), students will earn both high school and

college credit. Postsecondary credits earned are transferable to other colleges and universities depending on degree requirements at that institution. Contact a high school counselor for additional information on these opportunities.

Jump Start Career & Technical and/or Arts & Sciences

SCC, in cooperation with area high schools, can help high school students get a jump start on college and career and increase skill levels for employment. These programs are taught by SCC-approved instructors and offered at various locations around the area. Both high school and college credit are awarded for every class. High school counselors have complete listings of these offerings through their districts.

Application Procedures - Credit Courses

Specific Procedures for Students Applying for Admission

Applications for Admission are accepted at any time and may be submitted online at www.scciowa.edu. Application forms can also be distributed or mailed from the Enrollment Services Office. Enrollment is limited in certain courses and programs. In order to receive full consideration, students are encouraged to have all entrance requirements completed and available to the Enrollment Services Office at the earliest possible date. Application for Admission and transcripts of all previously earned academic credit (high school, high school equivalency or college) to Enrollment Services. Students are required to complete a new student orientation, which is available online, and provide placement assessments prior to enrollment. Students must have a current English, math, reading, and writing assessments on file with Enrollment Services Office. The college accepts Next-Gen Accuplacer, Accuplacer, ALEKS, COMPASS, or ACT scores that are within two years of enrollment.

An admissions committee may evaluate an application to determine admission to particular programs. Students are required to complete a new student orientation, which is available online, prior to enrollment. Career and technical programs may also require participation in a program orientation prior to enrollment. Students must have a current Next-Gen Accuplacer, Accuplacer and Aleks score and ACT or e-Write score (within the last two years) report on file with the Enrollment Services Office. The Next-Gen Accuplacer, Accuplacer, Aleks, ACT, and e-Write is used for advising, mandatory course placement, and admission into certain career education programs.

Transfer Students

Students who wish to transfer from another college are eligible to apply for admission. Students transferring to Southeastern Community College from other institutions will have their credits

evaluated on an individual basis. All transfer students are advised to consult with the Registrar's Office at (319) 752-2731 x5022 (registrar@scciowa.edu) well in advance of the beginning of each term so that transfer status may be established.

International Students (F-1 Status)

International students who apply from abroad or who would like to transfer from other institutions in the United States to Southeastern Community College must have a high school diploma or the equivalent. Students must submit an Application for Admission, Accuplacer ESL, or TOEFL score, and high school/college transcripts. Students must also provide financial documentation showing proof of funds available to cover the cost of tuition, books, room, board, etc. SCC is authorized under Federal law to enroll non-immigrant students. For more information, please contact the Enrollment Services Office at (319) 752-2731, ext. 5017.

Non-Native Speakers

All applicants to Southeastern Community College whose native language is not English are required to submit scores from the Test of English as a Foreign Language (TOEFL) or Accuplacer-ESL with their Application for Admission and supporting academic documents. Students must demonstrate proficiency in the English language by obtaining a satisfactory score on the Accuplacer-ESL or TOEFL ESL. For more information, please contact the Enrollment Services Office at (319) 752-2731, x5017.

Graduation Requirements

General Information

A student who intends to graduate from Southeastern Community College must file a Request to Graduate petition. This petition should be completed when registering for the last anticipated semester of classes. Petition forms are available in the Registrar's office and on the SCC website. Degree, diploma, and certificate requirements stated in the Southeastern Community College catalog at the time of a student's initial enrollment will remain in effect for that student until graduation. If changes occur in graduation requirements subsequent to initial enrollment, the student may elect to graduate under the most recent degree or diploma requirements. The ability to graduate under the requirements of an older catalog is subject to a five-year limitation. The final determination of graduation requirements rests with the Registrar.

It is the responsibility of the student to know and to observe the requirements of his/her curriculum and the rules governing academic work. Although an Enrollment Specialist will attempt to help the student make wise decisions, the final responsibility for meeting the requirements for graduation rests with the student.

Graduation from Southeastern Community College shall be certified by the issuance of a degree, diploma, or certificate. No student shall be issued an award who has not earned a cumulative grade point average of at least 2.00 at SCC. If a student receives information from an Enrollment Specialist which may have an impact upon the student's graduation requirements or application of credits toward graduation, the student is advised to secure the information in writing. It is further advised that this documentation be retained by the student.

Commencement

Commencement is an integral part of the student's experience in college. The commencement is held at the conclusion of the spring semester. Any student of the college who has completed all the necessary requirements

for a degree, diploma, or a certificate requiring 15 or more semester hours is eligible to participate. Additionally, any student of Southeastern Community College is eligible to participate in commencement if there is a clear indication made to the Registrar by the student at the beginning of the spring semester that necessary requirements will be completed prior to the beginning of the next fall semester.

Graduation with Honors

Qualifying students are recognized as meeting the requirements of Graduation with Honors at commencement ceremonies. To qualify for this recognition, the student's cumulative grade point average must be 3.75 or above as of the end of the fall semester. A minimum of 15 semester hours must have been completed at Southeastern Community College. A student with a GPA below 3.75, but above a 3.50, may qualify at the end of the spring semester if he/she receives spring grades which are high enough to raise his/her GPA to 3.75 or above at the end of the spring semester. It is the responsibility of the student to notify the Registrar of this possible last-minute designation.

Assessment Philosophy

Assessing student academic achievement at Southeastern Community College is a process of documenting student learning within the domain of general education requirements and within career education programs that go beyond traditional course grades. The purpose of assessment is to promote and document continuous educational improvement throughout the institution. The data gathered will be used to make adjustments within courses and/or programs when deemed necessary. Assessment data will also provide valuable information for use in the college's strategic planning and program review processes. The assessment of students' knowledge of course content and general education and career education objectives will also allow the college to become more articulate in its communication efforts with internal and external constituents regarding how well the college is accomplishing its mission and goals/objectives.

General Education Statement

Revised: 6/1/2023 5:21p.m.

The goal of Southeastern Community College is to instill within its degree graduates a body of knowledge, skills, and attitudes upon which they can build to be contributing members of society. To accomplish this, associate degree requirements are established which meet a diversity of interests associated with comprehensive community college students. Southeastern Community College requires that the associate of arts (AA) degree and the associate of science (AS) degree includes courses in the following areas:

1. Communication
2. Social Science
3. Humanities
4. Mathematics
5. Science
6. Cultural Awareness

SCC is committed to ensuring that students graduating with associate degrees have attained skills in the following areas:

- Communication
- Critical Thinking
- Scientific, Quantitative, and Qualitative Reasoning
- Responsible Citizenship
- Cultural Awareness
- Appreciation of Cultural Diversity

The College Experience Course Policy

SCC requires first time degree-seeking students to take SDV-108 The College Experience during their first semester. This course is required for graduation. Exceptions to this requirement include:

1. Transfer students with an official transcript(s) from a previous institution(s) who have earned a minimum of 12 credits with a cumulative GPA of 2.0 or higher (cumulative GPA encompasses all attempted credits, not just those earned).
2. Transfer students with an official transcript from a previous institution who have taken a similar course with a grade of C- or better.
3. Students who were previously enrolled at SCC (excluding high school concurrent enrollment) who have earned a minimum of 12 credits with a cumulative GPA of 2.0 or higher.

General Education Group Requirements

Communication
ENG English; SPC Speech
Humanities

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ART Art; LIT Literature;
Foreign Language — FLF French, FLG
German, FLS Spanish; HIS History;
HUM Humanities; MUS, MUA Music;
PHI Philosophy; DRA Drama; REL
Religion

Social Sciences

ECN Economics; GEO Geography; HIS
History; POL Political Science;
PSY Psychology; SOC Sociology

Math and Science

MAT Mathematics; BIO Biology;
CHM Chemistry; ENV Environmental
Science; PHY Physics; PHS Physical
Science

Cultural Awareness

ART Art; DRA Drama; ENG English; FLS
Foreign Language Spanish; HIS History;
HUM Humanities; MUS Music; PHI
Philosophy; REL Religion; SOC Sociology

Credit earned toward satisfaction of
one group requirement may not be
applied toward satisfaction of a second
group requirement.

Academic Awards

Requirements for each of the
college's curriculum must be
satisfactorily completed prior to an
individual being eligible to receive an
award from Southeastern Community
College. One of the following will be
awarded to a student who completes the
specified requirements:

- Associate of Arts degree
- Associate of Science degree
- Associate of Applied Science degree
- Diploma
- Certificate

Associate of Arts Degree

The associate of arts degree is
primarily intended for those students
who plan to transfer to a four-year
college or university. A transfer student
should always consult with the four-
year institution to determine application
of particular courses toward his/her
degree objectives. All candidates for the
Associate of Arts Degree must meet the
following requirements:

1. Earn a minimum of 15 of the last 20
semester hours of credit in resident classes
at Southeastern Community College.
2. Earn a minimum cumulative grade point
average (GPA) of 2.00 at SCC.
3. All general education group
requirements necessary for the associate of
arts degree must be selected from transfer
course offerings.

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4. Each of the following minimum general
education group requirements must be
met:

SDV-108 1 sem. hr.
Communication

(ENG-105, ENG-106 and SPC-101 or
SPC-112) 9 sem. hrs.

*Humanities..... 9 sem. hrs.

*Social Sciences 12 sem. hrs.

*Science & Mathematics.. 10 sem. hrs.

Cultural Awareness 3 sem. hrs.

*Electives..... 16 sem. hrs.

Minimum Total..... 60 sem. hrs.

** Select courses from at least two
different disciplines in this area. In the
science and mathematics group, at least
one lab science and one mathematics
course must be taken.*

Associate of Science Degree

The associate of science degree is
primarily intended for those students
who plan to transfer to a four-year
college or university. A transfer student
should consult with the four-year
institution to determine application
of particular courses toward his/her
degree objectives. All candidates for the
Associate of Science Degree must meet the
following requirements:

1. Earn a minimum of 15 of the last 20
semester hours of credit in resident classes
at Southeastern Community College.
2. Earn a minimum cumulative grade point
average (GPA) of 2.00 at SCC.
3. All general education
group requirements and specialty
area requirements necessary for
the associate of science degree must be
selected from transfer course offering.

4. Each of the following minimum general
education group requirements must be met:

SDV-108 1 sem. hr.

Communication

(ENG-105, ENG-106 and SPC-101 or
SPC-112) 9 sem. hrs.

*Humanities..... 6 sem. hrs.

*Social Sciences 6 sem. hrs.

*Science & Mathematics..... 21 sem. hrs.

Cultural Awareness 3 sem. hrs.

*Electives..... 14 sem. hrs.

Minimum Total..... 60 sem. hrs.

** Select courses from at least two different
disciplines in this area. In the science
and mathematics group, at least one lab
science and one mathematics course must
be taken.*

Associate of Applied Science Degree

The associate of applied science degree
is intended for those students who are
enrolled in a two-year career education
program. All candidates for the Associate
of Applied Science Degree must meet the
following requirements:

1. Earn a minimum of 15 of the last 20
semester hours of credit in resident classes
at Southeastern Community College.
2. Earn a minimum cumulative grade point
average (GPA) of 2.00 in the AAS degree
curriculum at SCC.
3. General education courses required for
the associate of applied science degree
must be selected from courses listed
in the approved program curriculum.
A minimum of 15 semester hours of
general education requirements must
be taken with at least one course from
each of the three areas: Communication;
Social Sciences and/or Humanities;
Mathematics and/or Science.
4. Satisfactory completion of all core and
general education requirements as
specified for the curriculum selected.
These requirements are stated in the career
education section of this catalog. Core
and general education requirements of the
individual career education curriculums
vary in terms of the credit hour
requirements. Therefore, requirements
should be evaluated carefully by the
student. Normally, the length of all career
education curricula leading to an associate
of applied science degree is a minimum of
four semesters.

Diploma

The diploma shall be issued to a
person who has graduated from an
approved Career and Technical Education
program which does not culminate in
a degree or certificate. All candidates
for a Diploma must meet the following
requirements:

1. Earn a minimum of ten of the last 13
semester hours of credit in resident classes
at Southeastern Community College.
2. Earn a minimum cumulative grade point
average (GPA) of 2.00 at SCC in the
diploma curriculum.
3. General education courses and elective
credit required for a diploma are listed in
the approved curriculum for that diploma.
4. Satisfactory completion of all general
education and core requirements as
specified for the diploma program.
These requirements are stated in
the career education section of this
catalog. Requirements of diploma

programs vary in terms of length and credit hours.

Certificate

A certificate of completion may be issued to a student who has satisfactorily completed a course of study prescribed by the institution other than one that is intended to result in the awarding of a diploma or degree. All candidates for a Certificate must meet the following requirements:

1. All requirements must be met through earned SCC credits or through approved action by the registrar.
2. Earn a minimum cumulative grade point average (GPA) of 2.00 in the certificate curriculum at SCC.
3. General education courses, if required, are listed in the approved curriculum for that certificate.
4. Satisfactory completion of all core, general education and/or elective requirements as specified for the certificate program. These requirements are stated in the program section of the college catalog. Requirements of certificate programs vary in terms of length and credit hours.

Arts and Sciences (College Transfer)

The arts and sciences program provides courses of study which will readily transfer to most colleges and universities. Students planning to earn a baccalaureate degree may begin coursework at Southeastern Community College and complete the general education requirements for most majors with the completion of an SCC Associate of Arts degree. Iowa community colleges and Iowa regent universities (University of Iowa, University of Northern Iowa, and Iowa State University) have developed an articulation agreement to assist in the transfer process. SCC also has articulation agreements with other colleges and universities. Students should consult with an SCC enrollment specialist at either West Burlington (319) 752-2731 x5017, admoff@scciaowa.edu or Keokuk (319) 524-3221 x1929, sadmoff@scciaowa.edu to determine the transfer of coursework since many majors require specific classes. Students may also be referred to faculty for questions regarding specific majors.

Steps to Assist in the Transfer of Credit

Students who intend to transfer credits earned at SCC toward degree requirements at another college are urged to observe the following steps. Students should:

1. **THINK** carefully about personal interests and abilities. Students will then be in a better position to make decisions regarding educational goals, and SCC will be able to better assist the student in accomplishing those goals.
2. **MEET** with an SCC enrollment specialist to discuss educational plans and select courses for each term.
3. **CONTACT** the transfer college to obtain information necessary for a successful transfer. Students should be aware that many majors require specific coursework at SCC.
4. **DISCUSS** any change in educational plans with an SCC enrollment specialist. Never rely on rumors about what will and will not transfer. Always visit

with an enrollment specialist or the transfer institution and get the facts. To be assured of an ideal transfer, it is very important for students to know both their chosen majors and transfer colleges as soon as possible. Most transfer colleges provide information on their websites for transfer students. To see how an SCC class transfers, go to the SCC website www.scciaowa.edu/academics/transfer.

Graduation Requirements for Associate of Arts Degree

To graduate with an Associate of Arts degree, students must have a 2.00 grade point average or above and have successfully completed sixty (60) semester hours of credit in courses as designated below. In addition, students must meet the requirements specified in the following categories:

	Required Credit Hours
THE COLLEGE EXPERIENCE	
<i>The College Experience:</i> SDV-108	1
<hr/>	
COMMUNICATIONS	
<i>COMPOSITION:</i> ENG-105 , 106	6
<i>SPEECH:</i> SPC-112 or 101	3
<hr/>	
HUMANITIES - Select from at least 2 different departments	9
<i>ART:</i> ART-101 , 109, 120, 123, 133, 134, 138, 143, 144, 154, 157, 173, 174, 184, 203, 204, 208, 922, 928	
<i>DRAMA:</i> DRA-101 , 110, 130, 141, 142, 145, 165	
<i>ENGLISH:</i> ENG-221 , 929	
<i>HISTORY & WORLD CIV:</i> HIS-131 , 132, 151, 152, 211, 231, 251, 257, 266, 268, 271	
<i>HUMANITIES:</i> HUM-114 , 145, 287	
<i>JOURNALISM:</i> JOU-120 , 121	
<i>LITERATURE:</i> LIT-101 , 105, 120, 121, 122, 125, 131, 150, 151, 184, 204, 209	
<i>MASS MEDIA STUDIES:</i> MMS-111	
<i>MUSIC:</i> MUA-101 , 104, 106, 108, 109, 120 through 127, 143, 146, 170, 173, 180, 183/ MUS-100 , 102, 120, 121, 135, 136, 140, 150, 162, 204, 220, 221, 235, 236	
<i>PHILOSOPHY:</i> PHI-101 , 105, 110, 122	
<i>RELIGION:</i> REL-101	
<i>SPANISH:</i> FLS-129 , 141, 142, 231, 232, 922	
<i>SPEECH:</i> SPC-115	
<hr/>	
SOCIAL SCIENCE - Select from at least 2 different departments	12
<i>ECONOMICS:</i> ECN-120 , 130	
<i>GEOGRAPHY:</i> GEO-121 , 141, 161, 922	
<i>HISTORY & WORLD CIV:</i> HIS-131 , 132, 151, 152, 211, 231, 251, 257, 266, 268, 271	
<i>POLITICAL SCIENCE:</i> POL-110 , 111, 112	
<i>PSYCHOLOGY:</i> PSY-102 , 111, 121, 211, 226, 227, 228, 241, 251	

SOCIOLOGY: SOC-110, 114, 115, 120, 136, 160, 161, 186, 207, 212, 220, 221, 230, 240, 251, 270, 922

MATH & SCIENCE - Must include one math and one laboratory science course 10

MATHEMATICS: MAT-110, 112, 113, 127, 128, 140, 149, 156, 165, 170, 210, 216, 219, 227

LAB SCIENCE: BIO-105, 112, 113, 138, 163, 168, 173, 186, 248, 252/CHM-122, 165, 175, 263, 273/ENV-111/PHS-120, 151/PHY-106, 160, 161, 212, 222/SCI-123

NON-LAB SCIENCE: BIO-151, 277/PHS-165, 185/ SCI-922, 928

CULTURAL AWARENESS - Minimum of 3 hours 3

ART-101, 203, 204, 208/DRA-101, 110, 130/ENG-221/ FLS-141, 142/HIS-211, 257/HUM-114/LIT-120, 121, 122, 131, 209/MUS-100, 204/PHI-101, 105, 122/REL-101/SOC-186, 212, 851/SPC-120

ELECTIVES 16

Once category requirements are met, any course from the above discipline areas may be applied to elective credits. Students should plan their elective courses according to their college major if they are planning to transfer on for a four year degree.

Information on suggested coursework is available in the Enrollment Services office.

TOTAL 60

Criminal Justice Transfer Major - AA

The Criminal Justice Transfer Major is designed to prepare students for careers in several areas of the administration of justice. Program graduates find jobs with local police departments, sheriff's offices, the state highway patrol, federal/state narcotics agencies, correctional institutions and state and local probation and parole agencies.

NOTE: Students who have a criminal background history may complete the program. However, these students will have serious difficulty obtaining an internship or employment.

This Transfer Major Guided Pathway is designed to seamlessly transfer to the Criminal Justice Bachelor's degrees at the Iowa Regent Institutions: UNI, ISU, and UI.

SCC has established 2+2 articulation agreements with four-year institutions for this transfer major. Depending upon where you want to transfer, your SCC coursework may differ from the sample given. Contact your enrollment specialist to explore which courses you should take.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I		Credit
CRJ-100	INTRODUCTION TO CRIMINAL JUSTICE	3
ENG-105	COMPOSITION I	3
POL-111	AMERICAN NATIONAL GOVERNMENT	3
SDV-108	THE COLLEGE EXPERIENCE	1
SOC-110	INTRODUCTION TO SOCIOLOGY	3
SOC-230	JUVENILE DELINQUENCY	3
Semester Total.....		16

Spring Semester I		Credit
CRJ-130	CRIMINAL LAW	3
ENG-106	COMPOSITION II	3
MAT-156	STATISTICS	3
SCI-123	FORENSIC SCIENCE	4
SOC-240	CRIMINOLOGY	3
Semester Total.....		16

Fall Semester II		Credit
CRJ-120	INTRODUCTION TO CORRECTIONS	3
CRJ-132	CONSTITUTIONAL LAW	3
CRJ-141	CRIMINAL INVESTIGATION	3
HUM-114	MULTICULTURAL PERSPECTIVES	3
PHS-185	INTRODUCTION TO EARTH SCIENCE	3
Semester Total.....		15

Spring Semester II		Credit
HIS-211	MODERN ASIAN HISTORY	3
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
PHI-105	INTRODUCTION TO ETHICS	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SPC-112	PUBLIC SPEAKING	3
Semester Total.....		15

Program Total..... 62

Where will this take me?

- Baliff
- Corrections Officer
- Federal/State Law Enforcement Agent
- Police Officer
- Rehabilitation Counselor
- Sheriff's Deputy

Instructor and Staff

Cindy Shireman
 Professor
 (319) 208-5000 ext. 5232
 cshireman@scciowa.edu
 BA, University of Iowa
 MA, University of Iowa
 MS, Kaplan University

Southeastern Community College values diversity in all its forms. Please visit <https://www.scciowa.edu/non-discrimination-statement.aspx> to view our non-discrimination statement. For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit SCC's financial aid website at <http://www.scciowa.edu/admissions/costaid/finaid/gainemp.aspx>

Graduation Requirements for Associate of Science Degree

To graduate with an Associate of Science degree, students must have a 2.00 grade point average or above and have successfully completed sixty (60) semester hours of credit in courses as designated below. In addition, students must meet the requirements specified in the following categories:

	Required Credit Hours
THE COLLEGE EXPERIENCE	
<i>The College Experience:</i> SDV-108	1
<hr/>	
COMMUNICATIONS	
<i>COMPOSITION:</i> ENG-105 , 106	6
<i>SPEECH:</i> SPC-112 or 101	3
<hr/>	
HUMANITIES - Select from at least 2 different departments	6
<i>ART:</i> ART-101 , 109, 120, 123, 133, 134, 138, 143, 144, 154, 157, 173, 174, 184, 203, 204, 208, 922, 928	
<i>DRAMA:</i> DRA-101 , 110, 130, 141, 142, 145, 165	
<i>ENGLISH:</i> ENG-221 , 929	
<i>HISTORY & WORLD CIV:</i> HIS-131 , 132, 151, 152, 211, 231, 251, 257, 266, 268, 271	
<i>HUMANITIES:</i> HUM-114 , 145, 287	
<i>JOURNALISM:</i> JOU-120 , 121	
<i>LITERATURE:</i> LIT-101 , 105, 120, 121, 122, 125, 131, 150, 151, 184, 204, 209	
<i>MASS MEDIA STUDIES:</i> MMS-111	
<i>MUSIC:</i> MUA-101 , 104, 106, 108, 109, 120 through 127, 143, 146, 170, 173, 180, 183/ MUS-100 , 102, 120, 121, 135, 136, 140, 150, 162, 204, 220, 221, 235, 236	
<i>PHILOSOPHY:</i> PHI-101 , 105, 110, 122	
<i>RELIGION:</i> REL-101	
<i>SPANISH:</i> FLS-129 , 141, 142, 231, 232, 922	
<i>SPEECH:</i> SPC-115	
<hr/>	
SOCIAL SCIENCE - Select from at least 2 different departments	6
<i>ECONOMICS:</i> ECN-120 , 130	
<i>GEOGRAPHY:</i> GEO-121 , 141, 161, 922	
<i>HISTORY & WORLD CIV:</i> HIS-131 , 132, 151, 152, 211, 231, 251, 257, 266, 268, 271	
<i>POLITICAL SCIENCE:</i> POL-110 , 111, 112	

PSYCHOLOGY: **PSY**-102, 111, 121, 211, 226, 227, 228, 241, 251

SOCIOLOGY: **SOC**-110, 114, 115, 120, 136, 160, 161, 186, 207, 212, 220, 221, 230, 240, 251, 270, 922

MATH & SCIENCE - Must include one math and one science course 20

MATHEMATICS: **MAT**-127, 128, 140, 149, 156, 165, 170, 210, 216, 219, 227

LAB SCIENCE: **BIO**-112, 113, 138, 163, 168, 173, 186, 248, 252/**CHM**-165, 175, 263, 273/**PHY**-160, 161, 212, 222

CULTURAL AWARENESS - Minimum of 3 hours 3

ART-101, 203, 204, 208/**DRA**-101, 110, 130/**ENG**-221/**FLS**-141, 142/**HIS**-211, 257/**HUM**-114/**LIT**-120, 121, 122, 131, 209/**MUS**-100, 204/**PHI**-101, 105, 122/**REL**-101/**SOC**-186, 212, 851/**SPC**-120

ELECTIVES 15

Once category requirements are met, any course from the above discipline areas may be applied toward elective credits. Students should plan their elective courses according to their college major if they are planning to transfer on for a four year degree. Information on suggested coursework is available in the Enrollment Services office.

TOTAL 60

Admissions Information

The rules, policies, procedures, and fees described herein may be changed by the authorities of this institution without advance notice and without commitment to such original rules, policies, procedures, and fees deemed necessary to change.

General Admissions Policy

The basic expectation of students entering the college credit program is a desire to learn. The college provides educational opportunities for a wide variety of achievement levels and has established realistic entrance standards for each level. These standards may include mandatory placement.

Non-Discrimination Statement

It is the policy of Southeastern Community College not to discriminate on the basis of race, color, national origin, sex, disability, age employment, sexual orientation, gender identity, creed, religion, and actual or potential parental, family or marital status in its programs, activities, or employment practices as required by the Iowa Code §§ 216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681 – 1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

Individuals having questions or complaints related to compliance with this policy should contact Tina Young, Title IX / Equity Coordinator, Southeastern Community College, 1500 W. Agency Road, West Burlington, IA 52655, email tyoung@scciowa.edu, phone number (319) 208-5101, fax (319) 208-5005 or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 W. Madison, Suite 1475, Chicago, IL 60661, phone number (312) 730-1560, fax (312) 730-1576.

Students with Disabilities

It is the policy of SCC to comply with the access provisions of the state and federal civil rights legislation for persons with disabilities. Southeastern offers reasonable accommodations to encourage and ensure that persons with disabilities have equal access to education. Through disability services, accommodations are made available to qualified students with a documented disability. It is the recommendation of the Disability Services Coordinator that students contact the office as soon as possible to self-identify early so that they can work together to determine eligibility, identify issues and get reasonable accommodations in place. Each individual's needs and abilities are evaluated in accordance with ADA. To be eligible the student can forward the Disability Student Intake application and documentation of his/her disability to the Disability Services Coordinator. This information can be obtained from the Disability Services Coordinator and/or from the Disability Services Manual that is located at the webpage www.scciowa.edu/academics/disserv.asp. The Student Intake Application is on pages 25-27 and the Medical Professional Guidelines for Verifying a Disability are on page 31-33. You can self-report at any time to the Disability Services Coordinator, but it is strongly encouraged that you have everything that you need in place and ready when you begin classes at the start of each semester. For further information or to arrange for accommodations, call (319) 208-5167.

Mandatory Placement

Southeastern Community College has adopted mandatory placement standards for English, reading, and mathematics. All full-time and all part-time degree-seeking students must complete the Next-Gen Accuplacer, Accuplacer, ALEKS, or ACT and WritePlacer before enrolling in classes.

Assessment scores are valid for two years provided the student has been continuously enrolled. Students with scores older than two years will need to test again. Students with scores below an established level will be required to enroll in developmental course(s) in their first term of enrollment. Several career education programs also have minimum standards for admission and/or acceptance. Program and course admission standards are available in the Enrollment Services Office, West Burlington (319) 752-2731 x5017, admoff@scciowa.edu/Keokuk (319) 524-3221 x1929, sadmoff@scciowa.edu

Specific Admissions Requirements Arts and Sciences/Career Education Curricula

The minimum requirements for admission as a regular student to programs in either the Arts and Sciences Division or Career, Technical and Health Division shall be graduation from an approved secondary school, its equivalent (determining equivalency of a secondary school diploma shall be consistent with the practice employed by the three state institutions for higher education in Iowa) or demonstrated interest, aptitude, and the ability to benefit from coursework offered by the curricula.

Health Career Programs

Students entering health career programs are expected to maintain a high standard of ethical and professional behavior throughout their courses of study. Characteristics of honesty, integrity, commitment, safety and confidentiality are essential for program success. It is also expected that students will maintain regular attendance in classroom and clinical assignments. Students must maintain a high degree of professional behavior with patients and families during clinical assignments. All students will be required to pass a mandatory background check.

In addition to meeting the admissions requirements for the college, students entering health career programs must meet additional program admissions requirements. All health career programs require students to earn a grade of “C” (2.0) or above in all coursework within the program for which they are applying. In addition, students must have standardized placement scores completed within 24 months prior to the date of enrollment.

Admissions/Enrollment Prior to High School Graduation

Through agreements with area high schools, high school students who meet requirements as outlined in Senior Year Plus legislation have the opportunity to take college courses prior to high school graduation. Eligible courses are outlined in agreements between each area high school and SCC.

Upon completion of the enrolled course(s), students will earn both high school and college credit. Postsecondary credits earned are transferable to other colleges and universities depending on degree requirements at that institution. Contact a high school counselor for additional information on these opportunities.

Jump Start Career & Technical and/or Arts & Sciences

SCC, in cooperation with area high schools, can help high school students get a jump start on college and career and increase skill levels for employment. These programs are taught by SCC-approved instructors and offered at various locations around the area. Both high school and college credit are awarded for every class. High school counselors have complete listings of these offerings through their districts.

Application Procedures - Credit Courses

Specific Procedures for Students Applying for Admission

Applications for Admission are accepted at any time and may be submitted online at www.scciowa.edu. Application forms can also be distributed or mailed from the Enrollment Services Office. Enrollment is limited in certain courses and programs. In order to receive full consideration, students are encouraged to have all entrance requirements completed and available to the Enrollment Services Office at the earliest possible date. Application for Admission and transcripts of all previously earned academic credit (high school, high school equivalency or college) to Enrollment Services. Students are required to complete a new student orientation, which is available online, and provide placement assessments prior to enrollment. Students must have a current English, math, reading, and writing assessments on file with Enrollment Services Office. The college accepts Next-Gen Accuplacer, Accuplacer, ALEKS, COMPASS, or ACT scores that are within two years of enrollment.

An admissions committee may evaluate an application to determine admission to particular programs. Students are required to complete a new student orientation, which is available online, prior to enrollment. Career and technical programs may also require participation in a program orientation prior to enrollment.

Students must have a current Next-Gen Accuplacer, Accuplacer and Aleks score and ACT or e-Write score (within the last two years) report on file with the Enrollment Services Office. The Next-Gen Accuplacer, Accuplacer, Aleks, ACT, and e-Write is used for advising, mandatory course placement, and admission into certain career education programs.

Transfer Students

Students who wish to transfer from another college are eligible to apply for admission. Students transferring to Southeastern Community College from other institutions will have their credits evaluated on an individual basis. All transfer students are advised to consult with the Registrar's Office at (319) 752-2731 x5022 (registrar@scciowa.edu) well in advance of the beginning of each term so that transfer status may be established.

International Students (F-1 Status)

International students who apply from abroad or who would like to transfer from other institutions in the United States to Southeastern Community College must have a high school diploma or the equivalent. Students must submit an Application for Admission, Accuplacer ESL, or TOEFL score, and high school/college transcripts. Students must also provide financial documentation showing proof of funds available to cover the cost of tuition, books, room, board, etc. SCC is authorized under Federal law to enroll non-immigrant students. For more information, please contact the Enrollment Services Office at (319) 752-2731, ext. 5017.

Non-Native Speakers

All applicants to Southeastern Community College whose native language is not English are required to submit scores from the Test of English as a Foreign Language (TOEFL) or Accuplacer-ESL with their Application for Admission and supporting academic documents. Students must demonstrate proficiency in the English language by obtaining a satisfactory score on the Accuplacer-ESL or TOEFL ESL. For more information, please contact the Enrollment Services Office at (319) 752-2731, x5017.

Graduation Requirements

General Information

A student who intends to graduate from Southeastern Community College must file a Request to Graduate petition. This petition should be completed when registering for the last anticipated semester of classes. Petition forms are available in the Registrar's office and on the SCC website. Degree, diploma, and certificate requirements stated in the Southeastern Community College catalog at the time of a student's initial enrollment will remain in effect for that student until graduation. If changes occur in graduation requirements subsequent to initial enrollment, the student may elect to graduate under the most recent degree or diploma requirements. The ability to graduate under the requirements of an older catalog is subject to a five-year limitation. The final determination of graduation requirements rests with the Registrar.

It is the responsibility of the student to know and to observe the requirements of his/her curriculum and the rules governing academic work. Although an Enrollment Specialist will attempt to help the student make wise decisions, the final responsibility for meeting the requirements for graduation rests with the student.

Graduation from Southeastern Community College shall be certified by the issuance of a degree, diploma, or certificate. No student shall be issued an award who has not earned a cumulative grade point average of at least 2.00 at SCC.

If a student receives information from an Enrollment Specialist which may have an impact upon the student's graduation requirements or application of credits toward graduation, the student is advised to secure the information in writing. It is further advised that this documentation be retained by the student.

Commencement

Commencement is an integral part of the student's experience in college. The commencement is held at the conclusion of the spring semester. Any student of the college who has completed all the necessary requirements for a degree, diploma, or a certificate requiring 15 or more semester hours is eligible to participate. Additionally, any student of Southeastern Community College is eligible to participate in commencement if there is a clear indication made to the Registrar by the student at the beginning of the spring semester that necessary requirements will be completed prior to the beginning of the next fall semester.

Graduation with Honors

Qualifying students are recognized as meeting the requirements of Graduation with Honors at commencement ceremonies. To qualify for this recognition, the student's cumulative grade point average must be 3.75 or above as of the end of the fall semester. A minimum of 15 semester hours must have been completed at Southeastern Community College. A student with a GPA below 3.75, but above a 3.50, may qualify at the end of the spring semester if he/she receives spring grades which are high enough to raise his/her GPA to 3.75 or above at the end of the spring semester. It is the responsibility of the student to notify the Registrar of this possible last-minute designation.

Assessment Philosophy

Assessing student academic achievement at Southeastern Community College is a process of documenting student learning within the domain of general education requirements and within career education programs that go beyond traditional course grades. The purpose of assessment is to promote and document continuous educational improvement throughout the institution. The data gathered will be used to make adjustments within courses and/or programs when deemed necessary. Assessment data will also provide valuable information for use in the college's strategic planning and program review processes. The assessment of students' knowledge of course content and general education and career education objectives will also allow the college to become more articulate in its communication efforts with internal and external constituents regarding how well the college is accomplishing its mission and goals/objectives.

General Education Statement

The goal of Southeastern Community College is to instill within its degree graduates a body of knowledge, skills, and attitudes upon which they can build to be contributing members of society. To accomplish this, associate degree requirements are established which meet a diversity of interests associated with comprehensive community college students. Southeastern Community College requires that the associate of arts (AA) degree and the associate of science (AS) degree includes courses in the following areas:

1. Communication
2. Social Science
3. Humanities
4. Mathematics
5. Science
6. Cultural Awareness

SCC is committed to ensuring that students graduating with associate degrees have attained skills in the following areas:

- Communication

- Critical Thinking
- Scientific, Quantitative, and Qualitative Reasoning
- Responsible Citizenship
- Cultural Awareness
- Appreciation of Cultural Diversity

The College Experience Course Policy

SCC requires first time degree-seeking students to take SDV-108 The College Experience during their first semester. This course is required for graduation. Exceptions to this requirement include:

1. Transfer students with an official transcript(s) from a previous institution(s) who have earned a minimum of 12 credits with a cumulative GPA of 2.0 or higher (cumulative GPA encompasses all attempted credits, not just those earned).
2. Transfer students with an official transcript from a previous institution who have taken a similar course with a grade of C- or better.
3. Students who were previously enrolled at SCC (excluding high school concurrent enrollment) who have earned a minimum of 12 credits with a cumulative GPA of 2.0 or higher.

General Education Group Requirements

Communication

ENG English; SPC Speech

Humanities

ART Art; LIT Literature; Foreign Language — FLF French, FLG German, FLS Spanish; HIS History; HUM Humanities; MUS, MUA Music; PHI Philosophy; DRA Drama; REL Religion

Social Sciences

ECN Economics; GEO Geography; HIS History; POL Political Science; PSY Psychology; SOC Sociology

Math and Science

MAT Mathematics; BIO Biology; CHM Chemistry; ENV Environmental Science; PHY Physics; PHS Physical Science

Cultural Awareness

ART Art; DRA Drama; ENG English; FLS Foreign Language Spanish; HIS History; HUM Humanities; MUS Music; PHI Philosophy; REL Religion; SOC Sociology

Credit earned toward satisfaction of one group requirement may not be applied toward satisfaction of a second group requirement.

Academic Awards

Requirements for each of the college's curriculum must be satisfactorily completed prior to an individual being eligible to receive an award from Southeastern Community College. One of the following will be awarded to a student who completes the specified requirements:

- Associate of Arts degree
- Associate of Science degree
- Associate of Applied Science degree
- Diploma
- Certificate

Associate of Arts Degree

The associate of arts degree is primarily intended for those students who plan to transfer to a four-year college or university. A transfer student should always consult with the four-year institution to determine application of particular courses toward his/her degree objectives. All candidates for the Associate of Arts Degree must meet the following requirements:

1. Earn a minimum of 15 of the last 20 semester hours of credit in resident classes at Southeastern Community College.
2. Earn a minimum cumulative grade point average (GPA) of 2.00 at SCC.
3. All general education group requirements necessary for the associate of arts degree must be selected from transfer course offerings.
4. Each of the following minimum general education group requirements must be met:

SDV-108 1 sem. hr.

Communication

(ENG-105, ENG-106 and SPC-101 or SPC-112) 9 sem. hrs.

*Humanities..... 9 sem. hrs.

*Social Sciences 12 sem. hrs.

*Science & Mathematics.. 10 sem. hrs.

Cultural Awareness 3 sem. hrs.

*Electives..... 16 sem. hrs.

Minimum Total..... 60 sem. hrs.

** Select courses from at least two different disciplines in this area. In the science and mathematics group, at least one lab science and one mathematics course must be taken.*

Associate of Science Degree

The associate of science degree is primarily intended for those students who plan to transfer to a four-year college or university. A transfer student should consult with the four-year institution to determine application of particular courses toward his/her degree objectives. All candidates for the Associate of Science Degree must meet the following requirements:

1. Earn a minimum of 15 of the last 20 semester hours of credit in resident classes at Southeastern Community College.
2. Earn a minimum cumulative grade point average (GPA) of 2.00 at SCC.
3. All general education group requirements and specialty area requirements necessary for the associate of science degree must be selected from transfer course offering.
4. Each of the following minimum general education group requirements must be met:

SDV-108 1 sem. hr.

Communication

(ENG-105, ENG-106 and SPC-101 or SPC-112) 9 sem. hrs.

*Humanities..... 6 sem. hrs.

*Social Sciences 6 sem. hrs.

*Science & Mathematics..... 21 sem. hrs.

Cultural Awareness 3 sem. hrs.

*Electives..... 14 sem. hrs.

Minimum Total..... 60 sem. hrs.

** Select courses from at least two different disciplines in this area. In the science and mathematics group, at least one lab science and one mathematics course must be taken.*

Associate of Applied Science Degree

The associate of applied science degree is intended for those students who are enrolled in a two-year career education program. All candidates for the Associate of Applied Science Degree must meet the following requirements:

1. Earn a minimum of 15 of the last 20 semester hours of credit in resident classes at Southeastern Community College.
2. Earn a minimum cumulative grade point average (GPA) of 2.00 in the AAS degree curriculum at SCC.
3. General education courses required for the associate of applied science degree must be selected from courses listed in the approved program curriculum. A minimum of 15 semester hours of general education requirements must be taken with at least one course from each of the three areas: Communication; Social Sciences and/or Humanities; Mathematics and/or Science.
4. Satisfactory completion of all core and general education requirements as specified for the curriculum selected. These requirements are stated in the career education section of this catalog. Core and general education requirements of the individual career education curriculums vary in terms of the credit hour requirements. Therefore, requirements should be evaluated carefully by the student. Normally, the length of all career education curricula leading to an associate of applied science degree is a minimum of four semesters.

Diploma

The diploma shall be issued to a person who has graduated from an approved Career and Technical Education program which does not culminate in a degree or certificate. All candidates for a Diploma must meet the following requirements:

1. Earn a minimum of ten of the last 13 semester hours of credit in resident classes at Southeastern Community College.
2. Earn a minimum cumulative grade point average (GPA) of 2.00 at SCC in the diploma curriculum.
3. General education courses and elective credit required for a diploma are listed in the approved curriculum for that diploma.
4. Satisfactory completion of all general education and core requirements as specified for the diploma program. These requirements are stated in the career education section of this catalog. Requirements of diploma programs vary in terms of length and credit hours.

Certificate

A certificate of completion may be issued to a student who has satisfactorily completed a course of study prescribed by the institution other than one that is intended to result in the awarding of a diploma or degree. All candidates for a Certificate must meet the following requirements:

1. All requirements must be met through earned SCC credits or through approved action by the registrar.
2. Earn a minimum cumulative grade point average (GPA) of 2.00 in the certificate curriculum at SCC.
3. General education courses, if required, are listed in the approved curriculum for that certificate.
4. Satisfactory completion of all core, general education and/or elective requirements as specified for the certificate program.

These requirements are stated in the program section of the college catalog. Requirements of certificate programs vary in terms of length and credit hours.

Arts and Sciences (College Transfer)

The arts and sciences program provides courses of study which will readily transfer to most colleges and universities. Students planning to earn a baccalaureate degree may begin coursework at Southeastern Community College and complete the general education requirements for most majors with the completion of an SCC Associate of Arts degree. Iowa community colleges and Iowa regent universities (University of Iowa, University of Northern Iowa, and Iowa State University) have developed an articulation agreement to assist in the transfer process. SCC also has articulation agreements with other colleges and universities. Students should consult with an SCC enrollment specialist at either West Burlington (319) 752-2731 x5017, admoff@scciaowa.edu or Keokuk (319) 524-3221 x1929, sadmoff@scciaowa.edu to determine the transfer of coursework since many majors require specific classes. Students may also be referred to faculty for questions regarding specific majors.

Steps to Assist in the Transfer of Credit

Students who intend to transfer credits earned at SCC toward degree requirements at another college are urged to observe the following steps. Students should:

1. **THINK** carefully about personal interests and abilities. Students will then be in a better position to make decisions regarding educational goals, and SCC will be able to better assist the student in accomplishing those goals.
2. **MEET** with an SCC enrollment specialist to discuss educational plans and select courses for each term.
3. **CONTACT** the transfer college to obtain information necessary for a successful transfer. Students should be aware that many majors require specific coursework at SCC.
4. **DISCUSS** any change in educational plans with an SCC enrollment specialist. Never rely on rumors about what will and will not transfer. Always visit with an enrollment specialist or the transfer institution and get the facts.

To be assured of an ideal transfer, it is very important for students to know both their chosen majors and transfer colleges as soon as possible. Most transfer colleges provide information on their websites for transfer students. To see how an SCC class transfers, go to the SCC website www.scciaowa.edu/academics/transfer.

Accounting - Certificate, Diploma and AAS

This program is offered in West Burlington, Keokuk and Online. Keokuk students will be required to enroll in courses at either the West Burlington campus or online or both to complete this program.

This program is designed to provide students with the necessary knowledge and skills for entry-level accounting positions. The program will also take the student through balance sheets, financial statements, income tax analysis and cost accounting.

This Associate of Applied Science Degree Program is four semesters in length. The second year is comprised of advanced level courses to increase the skill level of the student and thus contribute to potentially more rapid advancement upon employment.

Of the 15 total credits required for Fall Semester I, you are required to take ACC-161, ACC-311, and CSC-110 (9 credits). You must also select two additional courses from those listed for Fall Semester I (6 credits). If you have no accounting experience, one of those two courses should be ACC-111 along with one other course from the list.

West Burlington Campus (Keokuk campus offers select courses)			Spring Semester I		Credit
Fall Semester I			SPC-101	FUNDAMENTALS OF ORAL COMMUNICATION	3
ACC-161	PAYROLL ACCOUNTING	3	SPC-112	PUBLIC SPEAKING	3
ACC-311	COMPUTER ACCOUNTING	3	Semester Total..... 15		
CSC-110	INTRODUCTION TO COMPUTERS	3	Fall Semester II		
Take 2 of these courses:			ACC-231	INTERMEDIATE ACCOUNTING I	4
ACC-111	INTRODUCTION TO ACCOUNTING	3	ACC-332	COMPUTER ACCOUNTING - QUICKBOOKS	2
ADM-133	BUSINESS MATH AND CALCULATORS	3	BUS-185	BUSINESS LAW I	3
BUS-102	INTRODUCTION TO BUSINESS	3	MAT-156	STATISTICS	3
BUS-121	BUSINESS COMMUNICATIONS	3	Take 1 of these courses:		
BUS-186	BUSINESS LAW II	3	ECN-120	PRINCIPLES OF MACROECONOMICS	3
ECN-120	PRINCIPLES OF MACROECONOMICS	3	ECN-130	PRINCIPLES OF MICROECONOMICS	3
ECN-130	PRINCIPLES OF MICROECONOMICS	3	PSY-111	INTRODUCTION TO PSYCHOLOGY	3
ENG-105	COMPOSITION I	3	SOC-110	INTRODUCTION TO SOCIOLOGY	3
ENG-106	COMPOSITION II	3	Semester Total..... 15		
ENG-131	BUSINESS ENGLISH	3	Spring Semester II		
FIN-130	PRINCIPLES OF FINANCE (ONLINE)	3	ACC-146	MANAGERIAL ACCOUNTING	3
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3	ACC-232	INTERMEDIATE ACCOUNTING II	4
MAT-140	FINITE MATH	3	BUS-180	BUSINESS ETHICS	3
MAT-165	BUSINESS CALCULUS	3	BUS-936	BUSINESS CAPSTONE	1
MGT-101	PRINCIPLES OF MANAGEMENT	3	Take 1 of these courses:		
MGT-170	HUMAN RESOURCES MANAGEMENT	3	ENG-105	COMPOSITION I	3
MKT-110	PRINCIPLES OF MARKETING	3	ENG-106	COMPOSITION II	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3	ENG-131	BUSINESS ENGLISH	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3	SPC-101	FUNDAMENTALS OF ORAL COMMUNICATION	3
Semester Total..... 15			SPC-112	PUBLIC SPEAKING	3
Spring Semester I			Take 1 of these courses:		
ACC-142	FINANCIAL ACCOUNTING	3	ACC-932	INTERNSHIP	4
ACC-261	INCOME TAX ACCOUNTING	3	ADM-133	BUSINESS MATH AND CALCULATORS	3
BCA-157	INTERMEDIATE SPREADSHEETS	3	BUS-102	INTRODUCTION TO BUSINESS	3
Take 1 of these courses:			BUS-121	BUSINESS COMMUNICATIONS	3
ECN-120	PRINCIPLES OF MACROECONOMICS	3	BUS-186	BUSINESS LAW II	3
ECN-130	PRINCIPLES OF MICROECONOMICS	3	ECN-120	PRINCIPLES OF MACROECONOMICS	3
MAT-140	FINITE MATH	3	ECN-130	PRINCIPLES OF MICROECONOMICS	3
MAT-165	BUSINESS CALCULUS	3	ENG-105	COMPOSITION I	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3	ENG-106	COMPOSITION II	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3	ENG-131	BUSINESS ENGLISH	3
Take 1 of these courses:			FIN-130	PRINCIPLES OF FINANCE (ONLINE)	3
ENG-105	COMPOSITION I	3	HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
ENG-106	COMPOSITION II	3			
ENG-131	BUSINESS ENGLISH	3			

Spring Semester II		Credit
MAT-140	FINITE MATH	3
MAT-165	BUSINESS CALCULUS	3
MGT-101	PRINCIPLES OF MANAGEMENT	3
MGT-170	HUMAN RESOURCES MANAGEMENT	3
MKT-110	PRINCIPLES OF MARKETING	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3
SPC-101	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPC-112	PUBLIC SPEAKING	3
Semester Total.....		17-18
Program Total.....		62-63

Where will this take me?

Accounting Clerk
Inventory Clerk
Accounts Payable Clerk
Bookkeeper
Payroll Clerk
Tax Accountant Clerk

Instructor and Staff

Kevin Rosenberg
Professor
(319) 208-5000 ext. 5199
krosenberg@scciowa.edu
BBA, University of Iowa
MA, University of Iowa

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Advanced Automation & Robotics Technology - Certificates, Diploma and AAS

Electrical Maintenance Technology Certificate awarded after successful completion of first semester courses.

Mechanical Maintenance Technology Certificate awarded after successful completion of second semester courses.

Industrial Maintenance Technology Diploma awarded after successful completion of first year.

Keokuk Campus

Fall Semester I		Credit	Spring Semester II	Credit
			Take 1 of these courses:	
BUS-121	BUSINESS COMMUNICATIONS	3	BIO-105 INTRODUCTORY BIOLOGY	4
ELE-195	MOTOR CONTROLS	3	ENV-111 ENVIRONMENTAL SCIENCE	4
ELE-310	INDUSTRIAL ELECTRICITY	2	PHS-151 INTRODUCTION TO ASTRONOMY	3
ELT-250	PROGRAMMABLE LOGIC CONTROLLERS	3	Take 1 of these courses:	
ELT-295	AC/DC FUNDAMENTALS	2	CAD-114 AUTOCAD (ONLINE)	2
IND-163	OSHA AND PLANT SAFETY	2	CAD-172 INTRODUCTION TO CAD: AUTO CAD (ONLINE)	2
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3	Semester Total.....	18-19
Semester Total.....		18	Program Total.....	67-68

Spring Semester I		Credit
EGT-142	FLUID POWER 1	2
EGT-143	FLUID POWER 2	2
ELE-116	BLUEPRINT READING	1
IND-104	INDUSTRIAL PUMPS	1
IND-141	POWER TRANSMISSION	2
MFG-209	MACHINE SHOP PRACTICES	3
MFG-520	PREDICTIVE MAINTENANCE	2
Take 1 of these courses:		
PSY-102	HUMAN AND WORK RELATIONS	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3
Semester Total.....		16

Fall Semester II		Credit
ELE-218	MOTION CONTROL	2
ELT-132	MOTOR DRIVES	1
ELT-262	ADVANCED PLC AND SYSTEM INTEGRATION (MECHATRONICS)	6
ENG-105	COMPOSITION I	3
Take 1 of these courses:		
HIS-151	US HISTORY TO 1877	3
HIS-152	US HISTORY SINCE 1877	3
PHI-101	INTRODUCTION TO PHILOSOPHY	3
PHI-105	INTRODUCTION TO ETHICS	3
Semester Total.....		15

Spring Semester II		Credit
ATR-118	AUTOMATION SYSTEMS	3
ATR-135	ADVANCED AUTOMATION AND ROBOTICS	3
ELE-127	TROUBLESHOOTING	1
ELE-219	SUPERVISORY CONTROL AND DATA ACQUISITION	3
ELT-176	INSTRUMENTATION	3

Where will this take me?

Robotics Technician
 Robotics Engineer
 Computer Controlled Machine Tool Operator
 Electro-Mechanical Technician

Instructor and Staff

Jason Radel
 Instructor
 (319) 524-3221 ext. 1990
 jradel@scciowa.edu
 AAS- Biomedical Electronics, Southeastern Community College
 RS Logix 5000 and Control Logix Certified

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Advanced Manufacturing - AAS

This program is designed to provide students with the skills necessary to enter the production environment as entry level Computer Numeric controls Programmers or Production Technicians. The program provides broad theoretical and hands-on education for those seeking careers in the production field. This program emphasizes various levels of the production process.

Each level builds upon the previous section, continuing the students' education and knowledge base of the production process.

Students will learn skills in safety, 2D and 3D production design, machining, and quality control with an emphasis placed on emerging trends including 5-axis design and machining principles. An OSHA 10 General Industry card will be awarded upon the successful completion of the IND-163 course.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I		Credit
CAD-101	INTRODUCTION TO CAD	3
DRF-113	FUNDAMENTALS OF TECHNICAL DRAFTING	3
ENG-105	COMPOSITION I	3
IND-163	OSHA AND PLANT SAFETY	2
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3
MFG-212	BASIC MACHINE THEORY	3
Semester Total.....		17

Spring Semester I		Credit
CAD-277	3-D DIMENSIONAL (3-D) MODELING I	3
EGT-116	CONTINUOUS QUALITY MANAGEMENT	3
MFG-237	INTRODUCTION TO MACHINE TRADES	3
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3
SPC-112	PUBLIC SPEAKING	3
Semester Total.....		15

Fall Semester II		Credit
CAD-140	PARAMETRIC SOLID MODELING (ONLINE)	3
MFG-156	INTRODUCTION TO CNC MACHINING	3
MFG-206	MANUFACTURING PROCESSES I	3
MFG-228	MACHINE OPERATIONS II	4
PHY-106	SURVEY OF PHYSICS	4
Semester Total.....		17

Spring Semester II		Credit
CAD-230	GEOMETRIC DIMENSIONING/ TOLERANCING	2
ELE-127	TROUBLESHOOTING	1
MFG-165	ENGINEERING MATERIALS	3
MFG-303	ADVANCED CNC PROGRAMMING	6
MFG-323	MASTERCAM DESIGN	2
MFG-511	LEAN QUALITY MANUFACTURING	4
Semester Total.....		18

Program Total..... 67

Where will this take me?

Computer Numerical Controls Machine Programmer (CNC)
 Production Maintenance Technician
 Tool and Die Maker

Manufacturing Production Technician
 Manufacturing Engineering Technologist

Instructor and Staff

Brad Junker
 Instructor
 (319) 208-5000 ext. 5182
 bjunker@scciowa.edu
 Journeyman Machinist

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Animation for Television, Film & New Media - AAS

SCC's new Animation for Television, Film and New Media program will prepare students to enter into a wide variety of careers in computer generated and stop motion animation for Information, Entertainment, Gaming and New Media industries.

Students will use state-of-the-art technology in SCC's all-new Animation Computer Lab and Stop Motion Lab located on the West Burlington campus.

Course competencies will include understanding the fundamentals of film, art, computers and new media communications. Skills in storytelling, 3-D animation, production, modeling, texturing, rendering and lighting, motion graphics, stop motion, technical and character animation and demo reel will be emphasized.

This broad-based instructional program will also feature training in a number of industry-specific software applications, including Photoshop, Illustrator, Maya, 3DS Max, Z Brush, Blender and Combustion.

West Burlington Campus

		Credit	
Fall Semester I			Character Animator
ANI-101	ANIMATION SOFTWARE I	3	Effects Animator
ANI-106	INTRODUCTION TO ANIMATION	3	Filmmaker
ANI-116	EXPLORING HUMAN MOVEMENT	3	Lighting & Rendering Artist
ART-133	DRAWING	3	Web Developer
DRA-110	INTRODUCTION TO FILM	3	Stop-Motion Animator
ENG-105	COMPOSITION I	3	Storyboard & Concept Artist
Semester Total.....		18	Technical Artist-Rigging
			Video Game Designer

		Credit
Spring Semester I		
ANI-102	ANIMATION SOFTWARE II	3
ANI-117	STORY FOR ANIMATION	3
ANI-210	INTERMEDIATE ANIMATION	5
ART-138	FIGURE DRAWING	3
Take 1 of these courses:		
ENG-221	CREATIVE WRITING	3
LIT-209	FORMS OF LITERATURE: FILM ADAPTATION	3
Semester Total.....		17

		Credit
Fall Semester II		
ANI-103	ANIMATION SOFTWARE III	3
ANI-211	ADVANCED ANIMATION	5
ANI-118	DESIGN FOR ANIMATION	3
GRA-299	ELECTRONIC PORTFOLIO	3
MAT-110	MATH FOR LIBERAL ARTS	3
Semester Total.....		17

		Credit
Spring Semester II		
ANI-104	ANIMATION SOFTWARE IV	3
ANI-166	CAPSTONE AND DEMO REEL FOR ANIMATION	3
ART-143	PAINTING	3
Take 1 of these courses:		
ANI-932	INTERNSHIP	4
ANI-941	ANIMATION STUDIO PRACTICUM	3
Semester Total.....		12-13
Program Total.....		64-65

Where will this take me?

3-D Modeler

Instructor and Staff

Tyler Horn
Assistant Professor
(319) 208-5000 ext. 5256
thorn@scciowa.edu
BFA, The Illinois Institute of Art at Schaumburg

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Automotive Technology - Diploma and AAS

After successful completion of the first two semesters the Auto Mechanics Diploma will be awarded.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I		Credit
AUT-106	INTRODUCTION TO AUTOMOTIVE TECHNOLOGY	2
AUT-126	FUNDAMENTALS OF AUTOMOTIVE SERVICING	2
AUT-405	AUTOMOTIVE SUSPENSION AND STEERING	5
AUT-505	AUTOMOTIVE BRAKE SYSTEMS	5
HSC-181	FIRST AID/CPR FOR NON-HEALTH CARE WORKERS	1.5
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3
Semester Total.....		18.5

Spring Semester I		Credit
AUT-166	AUTOMOTIVE ENGINE REPAIR	6
AUT-244	MANUAL DRIVETRAINS I	3
AUT-610	AUTOMOTIVE ELECTRICAL I	4
ENG-110	WRITING FOR THE WORKPLACE	3
SCI-115	BASIC ELECTRICITY	2
SDV-125	WORKPLACE READINESS	1
Semester Total.....		19

Summer Semester

		Credit
Take 1 of these courses:		
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3
SOC-115	SOCIAL PROBLEMS	3

		Credit
Take 1 of these courses:		
HIS-251	US HISTORY: 1945 TO PRESENT	3
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
PHI-105	INTRODUCTION TO ETHICS	3
Semester Total.....		6

Fall Semester II		Credit
AUT-625	AUTOMOTIVE ELECTRICAL II	8
AUT-800	ENGINE PERFORMANCE	8

		Credit
Take 1 of these courses:		
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3
Semester Total.....		19

Spring Semester II		Credit
AUT-190	HYBRID FUNDAMENTALS	2
AUT-207	AUTOMATIC TRANSMISSIONS/TRANSAXLES	6
AUT-246	MANUAL DRIVETRAINS II	3
AUT-700	AUTOMOTIVE HEATING AND AIR CONDITIONING	2.5
AUT-911	INTERNSHIP	4
Semester Total.....		17.5

Program Total..... 80

Where will this take me?

Automotive Diagnostic Expert
Automotive Parts Sales
Automotive Repair Technician
Automotive Service Advisor
Insurance Adjuster
Transmission Specialist

Instructor and Staff

Wes Carpenter
Assistant Professor
(319) 208-5000 ext. 5109
wcarpenter@scciowa.edu
AAS, Lincoln Technical Institute
BA, Western Illinois University
ASE Master Tech
ASE Advanced Engine Performance
GM and Ford Certified

Timothy Hunter
Instructor
(319) 208-5000 ext. 5108
thunter@scciowa.edu
AAS, Indian Hills Community College

Kelly Kroll
Administrative Assistant to the Dean of CTE
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Automotive Technology-Management - Diploma and AAS

After successful completion of the first two semesters, the Auto Mechanics Diploma will be awarded.

This is an option of the Automotive Technology Program allowing student to pursue a management track in their second year.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I		Credit
AUT-106	INTRODUCTION TO AUTOMOTIVE TECHNOLOGY	2
AUT-126	FUNDAMENTALS OF AUTOMOTIVE SERVICING	2
AUT-405	AUTOMOTIVE SUSPENSION AND STEERING	5
AUT-505	AUTOMOTIVE BRAKE SYSTEMS	5
HSC-181	FIRST AID/CPR FOR NON-HEALTH CARE WORKERS	1.5
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3
Semester Total.....		18.5

Spring Semester I		Credit
AUT-166	AUTOMOTIVE ENGINE REPAIR	6
AUT-244	MANUAL DRIVETRAINS I	3
AUT-610	AUTOMOTIVE ELECTRICAL I	4
ENG-110	WRITING FOR THE WORKPLACE	3
SCI-115	BASIC ELECTRICITY	2
SDV-125	WORKPLACE READINESS	1
Semester Total.....		19

Summer Semester		Credit
Take 1 of these courses:		
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3
SOC-115	SOCIAL PROBLEMS	3
Take 1 of these courses:		
HIS-251	US HISTORY: 1945 TO PRESENT	3
PHI-105	INTRODUCTION TO ETHICS	3
Semester Total.....		6

Fall Semester II		Credit
ACC-111	INTRODUCTION TO ACCOUNTING	3
ADM-117	KEYBOARDING AND DOCUMENT PRODUCTION	3
BUS-102	INTRODUCTION TO BUSINESS	3
BUS-180	BUSINESS ETHICS	3
MGT-101	PRINCIPLES OF MANAGEMENT	3
Semester Total.....		15

Spring Semester II		Credit
BUS-121	BUSINESS COMMUNICATIONS	3
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
MKT-110	PRINCIPLES OF MARKETING	3
Take 1 of these courses:		
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3

Spring Semester II	Credit
Take 1 of these courses:	
MGT-130 PRINCIPLES OF SUPERVISION	3
MGT-170 HUMAN RESOURCES MANAGEMENT	3
Semester Total.....	15
Program Total.....	73.5

Where will this take me?

Repair shop manager
Automotive Engineer
Transportation Manager

Instructor and Staff

Wes Carpenter
Assistant Professor
(319) 208-5000 ext. 5109
wcarpenter@scciowa.edu
AAS, Lincoln Technical Institute
BA, Western Illinois University
ASE Master Tech
ASE Advanced Engine Performance
GM and Ford Certified

Timothy Hunter
Instructor
(319) 208-5000 ext. 5108
thunter@scciowa.edu
AAS, Indian Hills Community College

Kelly Kroll
Administrative Assistant to the Dean of CTE
(319) 208-5000 ext. 5107
kkroll@scciowa.edu

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Business Administration - AAS

It is strongly recommended that students enrolled in any of the business curricula have attained a keyboarding competency rate of 30 wpm.

West Burlington campus and/or online (Keokuk campus offers select courses)

	Credit
Fall Semester I	
BUS-102 INTRODUCTION TO BUSINESS	3
CSC-110 INTRODUCTION TO COMPUTERS	3
ENG-105 COMPOSITION I	3
ENG-131 BUSINESS ENGLISH	3
Take 1 of these courses:	
PSY-111 INTRODUCTION TO PSYCHOLOGY	3
SOC-110 INTRODUCTION TO SOCIOLOGY	3
Semester Total.....	15

	Credit
Spring Semester I	
ACC-142 FINANCIAL ACCOUNTING	3
BUS-121 BUSINESS COMMUNICATIONS	3
BUS-180 BUSINESS ETHICS	3
MGT-130 PRINCIPLES OF SUPERVISION	3
MKT-110 PRINCIPLES OF MARKETING	3
Semester Total.....	15

	Credit
Fall Semester II	
BUS-185 BUSINESS LAW I	3
ECN-130 PRINCIPLES OF MICROECONOMICS	3
MAT-156 STATISTICS	3
MGT-101 PRINCIPLES OF MANAGEMENT	3
SPC-112 PUBLIC SPEAKING	3
Take 1 of these courses:	
MKT-140 PRINCIPLES OF SELLING	3
MKT-150 PRINCIPLES OF ADVERTISING	3
Semester Total.....	18

	Credit
Spring Semester II	
ACC-146 MANAGERIAL ACCOUNTING	3
BUS-936 BUSINESS CAPSTONE	1
ECN-120 PRINCIPLES OF MACROECONOMICS	3
FIN-130 PRINCIPLES OF FINANCE (ONLINE)	3
HUM-287 LEADERSHIP DEVELOPMENT STUDIES	3
MGT-170 HUMAN RESOURCES MANAGEMENT	3
Semester Total.....	16

Program Total..... 64

Where will this take me?

- Administrative Assistant
- Business Manager
- Human Resource Manager
- Marketing, Advertising & Public Relations Manager
- Merchandise Manager
- Office Manager
- Supervisor

Instructor and Staff

Kevin Rosenberg

Professor
 (319) 208-5000 ext. 5199
 krosenberg@scciowa.edu
 BBA, University of Iowa
 MA, University of Iowa

Renee Smith
 Associate Professor
 (319) 208-5000 ext. 5194
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 AA & AAS, Southeastern Community College
 BA, Buena Vista University
 MBA, Grand Canyon University

Stephani Smith
 Instructor
 (319) 208-5000 ext. 5217
 ssmith2@scciowa.edu
 BA, Iowa Wesleyan College
 MBA, Upper Iowa University

Deborah Wright
 Professor
 (319) 208-5000 ext. 5226
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 AA, Southeastern Community College
 BBA, Western Illinois University
 MA, Western Illinois University
 PhD, Northern Illinois University

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Collision Repair and Restoration - Diploma and AAS

After successful completion of the first two semesters, the Auto Body Diploma will be awarded.

West Burlington Campus

Fall Semester I		Credit
CRR-300	PREPARATION	2
CRR-340	METAL STRAIGHTENING	3
CRR-400	PANEL REPLACEMENT AND ADJUSTMENT	3.5
CRR-500	DAMAGE ANALYSIS	2
CRR-800	INTRODUCTION TO AUTOMOTIVE REFINISHING	2.5
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3
SCI-115	BASIC ELECTRICITY	2
Semester Total.....		18

Spring Semester I		Credit
CRR-120	MIG (GMAW) WELDING	3
CRR-454	GLASS REPLACEMENT	2
CRR-525	STRAIGHTENING STRUCTURAL PARTS	5.5
CRR-610	STEERING AND SUSPENSION	1.5
CRR-812	SURFACE PREPARATION	5
ENG-111	TECHNICAL WRITING (online)	3
Semester Total.....		20

Summer Semester		Credit
ART-133	DRAWING	3
Take 1 of these courses:		
HIS-251	US HISTORY: 1945 TO PRESENT	3
PHI-105	INTRODUCTION TO ETHICS	3
Take 1 of these courses:		
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3
SOC-115	SOCIAL PROBLEMS	3
Semester Total.....		9

Fall Semester II		Credit
CRR-201	PLASTIC REPAIR	2
CRR-575	ADVANCED STRUCTURAL REPAIR	6
CRR-580	ADVANCED FRAME STRAIGHTENING	6
CRR-765	COMPUTER DIAGNOSIS FOR AUTO COLLISION	5
Semester Total.....		19

Spring Semester II		Credit
CRR-410	FULL OR PARTIAL BODY PANEL REPLACEMENT	3.5
CRR-818	INTRODUCTION TO WATERBORNE FINISHES	2
CRR-845	COLOR TINTING AND MATCHING	2.5
CRR-875	ADVANCED REFINISHING METHODS	6
CRR-932	INTERNSHIP	4
Semester Total.....		18

Program Total..... 84

Where will this take me?

www.scciowa.edu (319) 208-5000

Auto Collision Estimator
 Auto Collision Equipment Sales
 Auto Collision Repair Technician
 Auto Glass Installation Expert
 Auto Wheel Alignment Technician
 Frame Repair Specialist
 Insurance Adjuster
 Paint Product Rep/Sales
 Paint Retailer
 Windmill Blade Repair Technician

Instructor and Staff

Randy Wachter
 Assistant Professor
 (319) 208-5000 ext. 5110
rwachter@scciowa.edu
 AAS, Southeastern community College

Tim Weaver
 Assistant Professor
 (319) 208-5000 ext. 5111
tweaver@scciowa.edu
 ASE Master Collision Repair

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Computer Aided Design Technology-AAS

Computer Aided Design (CAD) is the process of visualizing and developing models in two- and three-dimensional environments. Students leave the program with the ability to create detailed product and assembly drawings, as well as architectural blueprints.

Several software programs are introduced in class, helping graduates easily adapt to CAD software once they're working in the field. In Spring I semester, students have the option of taking MAT-120 and 134 together, or MAT-704.

West Burlington Campus

Fall Semester I		Credit	Spring Semester II		Credit
CAD-101	INTRODUCTION TO CAD	3	CAD-248	PARAMETRIC CAD II	3
CSC-110	INTRODUCTION TO COMPUTERS	3	MFG-511	LEAN QUALITY MANUFACTURING	4
DRF-113	FUNDAMENTALS OF TECHNICAL DRAFTING	3	Semester Total..... 13		
MFG-212	BASIC MACHINE THEORY	3	Program Total..... 60-62		
Take either MAT-120 and MAT-134 or MAT-704:			Where will this take me?		
MAT-120	COLLEGE ALGEBRA	3	Architectural Engineering Technician		
MAT-134	TRIGONOMETRY AND ANALYTIC GEOMETRY	3	CAD Operator		
MAT-704	MATH APPLICATIONS	5	Drafter/Design Technician		
Semester Total..... 17-18			Mechanical Engineering Technician		
			Project Manager		
			Instructor and Staff		
Spring Semester I			Jonathan Gaddis		
CAD-277	3-D DIMENSIONAL (3-D) MODELING I	3	Associate Professor		
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3	(319) 208-5000 ext. 5258		
Take 1 of these courses:			jgaddis@scciowa.edu		
ENG-105	COMPOSITION I	3	AAS, Southeastern Community College		
ENG-111	TECHNICAL WRITING (online)	3	BA, Iowa Wesleyan College		
Take 1 of these courses:			MBA, St. Ambrose University		
SPC-101	FUNDAMENTALS OF ORAL COMMUNICATION	3	<i>Southeastern Community College values diversity in all its forms. Please visit https://www.scciowa.edu/non-discrimination-statement.aspx to view our non-discrimination statement. For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit SCC's financial aid website at http://www.scciowa.edu/admissions/costaid/finaid/gainemp.aspx</i>		
SPC-112	PUBLIC SPEAKING	3			
Take 1 of these courses:					
PHY-106	SURVEY OF PHYSICS	4			
PHY-160	GENERAL PHYSICS I	5			
Semester Total..... 16-17					
Fall Semester II			Credit		
ARC-113	ARCHITECTURAL DRAFTING I	4			
MFG-206	MANUFACTURING PROCESSES I	3			
SDV-125	WORKPLACE READINESS	1			
Take 1 of these courses:					
CAD-140	PARAMETRIC SOLID MODELING (ONLINE)	3			
EGT-400	PLTW-INTRODUCTION TO ENGINEERING DESIGN	3			
Take 1 of these courses:					
ANI-101	ANIMATION SOFTWARE I	3			
CON-270	MECHANICAL SYSTEMS	3			
NET-122	COMPUTER HARDWARE BASICS	3			
Semester Total..... 14					
Spring Semester II			Credit		
ARC-129	RESIDENTIAL/LIGHT COMMERCIAL DRAFTING	4			
CAD-230	GEOMETRIC DIMENSIONING/TOLERANCING	2			

Construction Technology-Carpentry Emphasis - Certificate, Diploma and AAS

MAT-120 is required for transfer to a four-year university.

After successful completion of the first semester the Building Construction Certificate will be awarded. After successful completion of the first three semesters the Building Construction Diploma will be awarded.

A completed apprenticeship program may be substituted for CON-147, CON-148, CON-149, and CON-262. Students who have completed an apprenticeship approved by the Bureau of Apprenticeship & Training and the Iowa Department of Education will be allowed to articulate up to 29 credits after 12 credits of "C: or better are earned in the approved Construction Technology degree program at SCC.

West Burlington Campus

	Credit
Fall Semester I	
CON-108 CONSTRUCTION SAFETY	1
CON-147 CARPENTRY I	6
CON-332 CONSTRUCTION MATERIALS AND RESOURCES	3
Take 1 of these courses:	
ENG-105 COMPOSITION I	3
ENG-111 TECHNICAL WRITING (online)	3
Semester Total.....	13

	Credit
Spring Semester I	
CAD-101 INTRODUCTION TO CAD	3
CON-113 CONSTRUCTION PRINTREADING	2
CON-148 CARPENTRY II	6
CON-252 CONSTRUCTION ELECTRICITY	3
SOC-114 CONFLICT RESOLUTION IN THE WORKPLACE	3
Semester Total.....	17

	Credit
Summer Semester	
CON-350 INTERNSHIP	5
Semester Total.....	5

	Credit
Fall Semester II	
CON-149 CARPENTRY III	6
CON-270 MECHANICAL SYSTEMS	3
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
HEQ-131 SAFETY AND INTRODUCTION TO HEAVY EQUIPMENT	3
Semester Total.....	15

	Credit
Spring Semester II	
CON-128 CONSTRUCTION MANAGEMENT ESTIMATING	3
CON-262 COMMERCIAL CARPENTRY II	6
CON-345 SOILS AND CONCRETE	3
PSY-102 HUMAN AND WORK RELATIONS	3
Take 1 of these courses:	
ART-133 DRAWING	3
SPC-112 PUBLIC SPEAKING	3
Semester Total.....	18

Program Total..... 68
www.scciowa.edu (319) 208-5000

Where will this take me?

Carpenter
 Concrete Finisher
 Construction Materials Sales Representative
 Estimator
 Construction Materials Supplies Coordinator
 Finish Carpenter
 Framer
 Roofer

Instructor and Staff

Douglas Riley
 Assistant Professor
 (319) 208-5000 ext. 5184
driley@scciowa.edu
 AA, Southeastern Community College
 BA, Iowa Wesleyan College

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Construction Technology-Management - AAS

The SCC Construction Technology Program combines the NCCER Curricula with the Associate of Applied Science Degree requirements. Students will receive an Associate of Applied Science Degree upon completion of this program. Program curriculum is based on NCCER Curricula & combines illustrated instructional material with structured classroom activities.

This program emphasizes four levels of carpentry. Each level builds on the previous level, continuing the students' education and knowledge of carpentry. Agreements exist with local high schools that will allow students to take up to level 2 of carpentry while still in high school.

During the summer term, between the students' first and second year, a paid internship is required. This paid internship enables the student to experience an actual work environment provided by a local construction company. Upon graduation, the student will receive an Associate of Applied Science Degree.

West Burlington Campus			Spring Semester II	Credit
Fall Semester I		Credit	Semester Total.....	17
CON-108	CONSTRUCTION SAFETY	1	Program Total.....	67
CON-332	CONSTRUCTION MATERIALS AND RESOURCES	3	Where will this take me?	
DRF-113	FUNDAMENTALS OF TECHNICAL DRAFTING	3	Job Site Superintendent	
ECN-120	PRINCIPLES OF MACROECONOMICS	3	Supervisory Managing Positions	
ENG-105	COMPOSITION I	3	Instructor and Staff	
MAT-120	COLLEGE ALGEBRA	3	Douglas Riley	
Semester Total.....		16	Assistant Professor	
Spring Semester I		Credit	(319) 208-5000 ext. 5184	
ACC-142	FINANCIAL ACCOUNTING	3	driley@scciowa.edu	
CAD-101	INTRODUCTION TO CAD	3	AA, Southeastern Community College	
CON-113	CONSTRUCTION PRINTREADING	2	BA, Iowa Wesleyan College	
PSY-102	HUMAN AND WORK RELATIONS	3	<i>Southeastern Community College values diversity in all its forms. Please visit https://www.scciowa.edu/non-discrimination-statement.aspx to view our non-discrimination statement. For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit SCC's financial aid website at http://www.scciowa.edu/admissions/costaid/finaid/gainemp.aspx</i>	
Take 1 of these courses:				
HIS-151	US HISTORY TO 1877	3		
HIS-152	US HISTORY SINCE 1877	3		
Semester Total.....		14		
Summer Semester		Credit		
CON-350	INTERNSHIP	5		
Semester Total.....		5		
Fall Semester II		Credit		
ARC-113	ARCHITECTURAL DRAFTING I	4		
HEQ-131	SAFETY AND INTRODUCTION TO HEAVY EQUIPMENT	3		
MGT-101	PRINCIPLES OF MANAGEMENT	3		
PHY-160	GENERAL PHYSICS I	5		
Semester Total.....		15		
Spring Semester II		Credit		
CON-128	CONSTRUCTION MANAGEMENT ESTIMATING	3		
CON-345	SOILS AND CONCRETE	3		
PHY-161	GENERAL PHYSICS II	5		
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3		
Take 1 of these courses:				
ART-133	DRAWING	3		
SPC-112	PUBLIC SPEAKING	3		

Emergency Medical Services - Certificates and AAS

Admission standards apply to this program. Students must have a current CPR Certification. All other eligibility requirements must be met.

Successful completion of EMT State Certification required prior to admission to the Paramedic Program.

Emergency Medical Technician Certificate awarded after completion of EMS-201, which is offered in both fall and spring semesters.

Paramedic Certificate awarded after completion of EMS-665.

West Burlington Campus

Fall Semester I		Credit
BIO-163	ESSENTIALS OF ANATOMY AND PHYSIOLOGY	4
CSC-110	INTRODUCTION TO COMPUTERS	3
HSC-114	MEDICAL TERMINOLOGY	3
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
Semester Total.....		16

Spring Semester I		Credit
EMS-201	EMERGENCY MEDICAL TECHNICIAN	7
ENG-105	COMPOSITION I	3
HUM-114	MULTICULTURAL PERSPECTIVES	3
PHI-105	INTRODUCTION TO ETHICS	3
Semester Total.....		16

Fall Semester II		Credit
EMS-663	PARAMEDIC I	16.5
Semester Total.....		16.5

Spring Semester II		Credit
EMS-664	PARAMEDIC II	15
Semester Total.....		15

Summer Semester		Credit
EMS-665	PARAMEDIC III	7
Semester Total.....		7

Program Total..... 70.5

Where will this take me?

Air Medical Transport
Ambulance Service
Fire Station
Hospital
Industry

Instructor and Staff

James Steffen
Assistant Professor/Program Coordinator
(319) 208-5000 ext. 5253
jsteffen@scciowa.edu
AAS, Paramedic, Southeastern Community College
BA, Bellevue University

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Entrepreneurship- Certificate, Diploma and AAS

The Certificate in Small Business Management is for those who wish to work in or own a small business. This will be awarded after successful completion of BUS-102, CSC-110, ACC-142, BUS-130, BUS-131, and ENG-131.

The Certificate in Entrepreneurship is for those who wish to own or participate in a small business startup. This will be awarded after successful completion of BUS-135, BUS-138, BUS-184, BUS-141, BUS-121, and MKT-140.

An Entrepreneurship Diploma will be awarded upon successful completion of both Certificate programs.

The Entrepreneurship Diploma is intended for those students who wish to specialize in the creation of new business ventures, evaluate the feasibility of a new venture and identify the available resources for assisting an entrepreneur during the startup phase of the business.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I		Credit
BUS-102	INTRODUCTION TO BUSINESS	3
CSC-110	INTRODUCTION TO COMPUTERS	3
ENG-105	COMPOSITION I	3
ENG-131	BUSINESS ENGLISH	3
Take 1 of these courses:		
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3
Semester Total.....		15

Spring Semester I		Credit
ACC-142	FINANCIAL ACCOUNTING	3
BUS-121	BUSINESS COMMUNICATIONS	3
BUS-130	INTRODUCTION TO ENTREPRENEURSHIP	3
BUS-131	SMALL BUSINESS MANAGEMENT STRATEGIES	3
BUS-180	BUSINESS ETHICS	3
SPC-112	PUBLIC SPEAKING	3
Semester Total.....		18

Fall Semester II		Credit
BUS-135	MANAGING THE ENTREPRENEURIAL VENTURE	3
BUS-138	SMALL BUSINESS MARKETING	3
ECN-130	PRINCIPLES OF MICROECONOMICS	3
MAT-156	STATISTICS	3
MKT-140	PRINCIPLES OF SELLING	3
Semester Total.....		15

Spring Semester II		Credit
BUS-141	SMALL BUSINESS STARTUP	3
BUS-184	BASIC LAW FOR ENTREPRENEURS	3
ECN-120	PRINCIPLES OF MACROECONOMICS	3
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
MGT-170	HUMAN RESOURCES MANAGEMENT	3
Semester Total.....		15

Program Total..... 63

Where will this take me?

- Small Business Owner
- Small Business Manager

Online Merchant
Store Manager

Instructor and Staff

Stephani Smith
Instructor
(319) 208-5000 ext. 5217
ssmith2@scciowa.edu
BA, Iowa Wesleyan College
MBA, Upper Iowa University

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Industrial Maintenance Technology-Certificates, Diploma and AAS

This program is broken down by semester and specialization.

After successful completion of the first semester the Electrical Maintenance Technology Certificate will be awarded.

After successful completion of the second semester the Mechanical Maintenance Technology Certificate will be awarded.

After successful completion of the first and second semesters, the Industrial Maintenance Technology Diploma will be awarded.

Industrial Maintenance Technology AAS Degree awarded when both years of program are completed.

Keokuk Campus

		Fourth Semester	Credit
First Semester		CAD-101 INTRODUCTION TO CAD	3
		CAD-114 AUTOCAD (ONLINE)	2
		Take 1 of these courses:	
BUS-121 BUSINESS COMMUNICATIONS	3	HIS-151 US HISTORY TO 1877	3
ELE-195 MOTOR CONTROLS	3	HIS-152 US HISTORY SINCE 1877	3
ELE-310 INDUSTRIAL ELECTRICITY	2	PHI-101 INTRODUCTION TO PHILOSOPHY	3
ELT-250 PROGRAMMABLE LOGIC CONTROLLERS	3	PHI-105 INTRODUCTION TO ETHICS	3
ELT-295 AC/DC FUNDAMENTALS	2	Take 1 of these courses:	
IND-163 OSHA AND PLANT SAFETY	2	BIO-105 INTRODUCTORY BIOLOGY	4
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3	ENV-111 ENVIRONMENTAL SCIENCE	4
Semester Total.....	18	PHS-151 INTRODUCTION TO ASTRONOMY	3
		Semester Total.....	16-18
Second Semester		Program Total.....	64-66
		Where will this take me?	
EGT-142 FLUID POWER 1	2	Industrial Engineering Technologist	
EGT-143 FLUID POWER 2	2	Industrial Engineering Technician	
ELE-116 BLUEPRINT READING	1	Industrial Engineer	
IND-104 INDUSTRIAL PUMPS	1	Industrial Safety & Health	
IND-141 POWER TRANSMISSION	2		
MFG-209 MACHINE SHOP PRACTICES	3	Instructor and Staff	
MFG-520 PREDICTIVE MAINTENANCE	2	Jeron Lindsay	
Take 1 of these courses:		Instructor	
PSY-102 HUMAN AND WORK RELATIONS	3	(319) 524-3221 ext. 1937	
PSY-111 INTRODUCTION TO PSYCHOLOGY	3	jllindsay@scciowa.edu	
SOC-110 INTRODUCTION TO SOCIOLOGY	3	Electrical & Mechanical Maintenance Certificates, Southeastern	
Semester Total.....	16	Community College	
Third Semester		Welding & Industrial Maintenance Diploma, Southeastern	
EGT-147 HYDRAULIC POWER SYSTEMS AND TROUBLESHOOTING	1	Community College	
ELT-132 MOTOR DRIVES	1		
ELT-262 ADVANCED PLC AND SYSTEM INTEGRATION (MECHATRONICS)	6	Jason Radel	
ENG-105 COMPOSITION I	3	Instructor	
IND-106 MACHINE SHOP II	2	(319) 524-3221 ext. ext. 1990	
IND-107 VALVES	1	jradel@scciowa.edu	
Semester Total.....	14	AAS-Electrical Technology, Northwest Iowa Community College	
Fourth Semester		AAS-Biomedical Electronics, Southeastern Community College	
ELE-127 TROUBLESHOOTING	1	RS Logix 5000 and Control Logix Certified	
ELT-176 INSTRUMENTATION	3		
IND-179 BOILER OPERATION AND CONTROL	2		
IND-180 INDUSTRIAL HEATING AND COOLING	2		
Take 1 of these courses:			

information, please visit SCC's financial aid website at <http://www.scciowa.edu/admissions/costaid/finaid/gainemp.aspx>

Interactive & Social Media Marketing - AAS

The Interactive & Social Media Marketing program prepares students with the necessary skills and knowledge to begin working in various prepress/premedia positions within the printing industry.

The curriculum includes classroom and laboratory instruction, as well as internship experience. Students receive instruction in the following areas: design/layout, typography, graphics, and preflighting.

Internships can be arranged in the printing, publishing, and marketing industries, or other businesses that utilize Social Media Marketing.

Students completing the curriculum will receive an AAS.

This curriculum replaces the Graphic Communications ASCO previously offered.

West Burlington Campus

		Spring Semester II	Credit
Fall Semester I		GRA-933 INTERNSHIP	4
CSC-110	INTRODUCTION TO COMPUTERS	Semester Total.....	16
ENG-105	COMPOSITION I	Program Total.....	69
GRA-137	DIGITAL DESIGN		
GRA-175	GRAPHIC DESIGN PRINCIPLES		
SMM-108	SOCIAL MEDIA ENGAGEMENT		
Take 1 of these courses:			
MAT-110	MATH FOR LIBERAL ARTS		
MAT-156	STATISTICS		
Semester Total.....			18
Spring Semester I			
GRA-275	ADVANCED GRAPHIC DESIGN		3
MKT-121	DIGITAL MARKETING		3
MMS-111	VIDEO PRODUCTION		3
WDV-101	INTRODUCTION TO HTML AND CSS		3
Take 1 of these courses:			
ART-184	PHOTOGRAPHY		3
ART-186	DIGITAL PHOTOGRAPHY		3
Semester Total.....			15
Summer Semester			
BUS-140	SMALL BUSINESS START-UP (ONLINE)		2
Semester Total.....			2
Fall Semester II			
GRA-140	DIGITAL IMAGING		3
GRA-173	TYPOGRAPHY		3
MKT-150	PRINCIPLES OF ADVERTISING		3
SMM-220	NAVIGATING THE MEDIA MINEFIELD		3
SPC-112	PUBLIC SPEAKING		3
Take 1 of these courses:			
PSY-111	INTRODUCTION TO PSYCHOLOGY		3
SOC-115	SOCIAL PROBLEMS		3
SOC-120	MARRIAGE AND FAMILY		3
Semester Total.....			18
Spring Semester II			
GRA-127	ILLUSTRATOR I		3
GRA-158	WEB MULTIMEDIA		3
GRA-166	WEB ANIMATIONS		3
GRA-190	ELECTRONIC MEDIA PROJECTS		3

Where will this take me?

Graphic Designer
Marketing Assistant
Typographer
Pre-press/Graphic Design Specialist
Print or Electronic Media Copywriter
Public Relations Assistant

Instructor and Staff

Carlene Woodside
Professor
(319) 208-5000 ext. 5201
cwoodside@sccciowa.edu
AAS, Carl Sandburg College
BS, Western Illinois University
MBA, Western Illinois University

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Medical Assistant - Diploma

Admissions standards apply to this program. Please contact the Enrollment Services for more details.

- A) ACT reading score of 19, SAT reading score of 330, Classic ACCUPLACER reading score of 73, or Next-Gen ACCUPLACER reading score of 248.
- B) ACT numerical score of 19 or ALEKS math score of 14 or higher.
- C) 35 net words per minute on a typing test.
- D) Standardized placement scores must be current (completed within 24 months) at time of enrollment.
- E) Satisfy "Essential Functions" guidelines.
- F) Students will be required to pass a mandatory background check.
- G) Students will be required to submit (at their own expense) a completed physical examination form and immunizations.
- H) Current certification in Basic Life Support-Healthcare Provider**.
- I) Current certification of Mandatory Reporter-Adult & Child**.
- J) Return of Handbook consent forms as directed in orientation.

** Each of the certifications can be obtained at Southeastern Community College. Students should work with an enrollment specialist for the appropriate courses and dates to obtain these certifications.

All health career programs require students to earn a grade of "C" (2.0) or above in all coursework within the program. All other eligibility requirements must be met.

West Burlington Campus

	Credit
Fall Semester I	
BIO-163 ESSENTIALS OF ANATOMY AND PHYSIOLOGY	4
HSC-114 MEDICAL TERMINOLOGY	3
MAP-121 ADMINISTRATIVE PROCEDURES I: MEDICAL OFFICE	4
MAP-139 INTRODUCTION TO ELECTRONIC HEALTH RECORDS	2
MAP-364 CLINICAL PROCEDURES FOR MEDICAL OFFICE I	7
MAP-431 HUMAN RELATIONS	1
Semester Total.....	21
Spring Semester I	
HIT-211 BASIC MEDICAL INSURANCE & CODING	3
MAP-122 ADMINISTRATIVE PROCEDURES II: MEDICAL OFFICE	3
MAP-369 CLINICAL PROCEDURES FOR MEDICAL OFFICE II	7
MAP-370 SPECIALTY PROCEDURES	4
MAP-401 MEDICAL LAW AND ETHICS	1
MAP-532 HUMAN BODY: HEALTH AND DISEASE	3
Semester Total.....	21
Summer Semester	
MAP-602 CLINICAL EXTERNSHIP SEMINAR	1
MAP-615 CLINICAL EXTERNSHIP	5
Semester Total.....	6
Program Total.....	48

Instructor and Staff

Anne Abel
Instructor
(319) 208-5293
aable@sccciowa.edu

Megan Massner
Instructor
(319) 208-5000 ext. 5203
mmassner@sccciowa.edu
Diploma, Southeastern Community College

Deb Shaffer
Instructor/Coordinator
(319) 208-5000 ext. 5213
dshaffer@sccciowa.edu
AAS, Mt. St. Clare College
ADN, Southeastern Community College

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Where will this take me?

Medical Assistant
Medical Records Manager
Medical Secretary

Medical Coding and Billing-Provider Emphasis - Diploma

Admission standards apply to this program. Please contact Enrollment Services for more details.

- A) ACT reading score of 19, SAT reading score of 330, Classic ACCUPLACER reading score of 73 or Next-Gen ACCUPLACER reading score of 248.
- B) ACT numerical score of 19, SAT math score of 510, or ALEKS score of 14 or higher.
- C) Students will be required to achieve a 35 net words per minutes on a typing test.
- D) Satisfy "Iowa Core Performance Standards".
- E) Standardized placement scores must be current (completed within 24 months) at time of enrollment.
- F) Must successfully complete a course in Anatomy and Physiology Essentials with a grade of "C" or above.
- G) Students will be required to pass a mandatory background check.
- H) Students will be required to submit (at their own expense) a completed physical examination form and immunizations.

All health career programs require students to earn a grade of "C" (2.0) or above in all coursework within the program. All other eligibility requirements must be met.

West Burlington Campus

Prerequisite		Credit
BIO-163	ESSENTIALS OF ANATOMY AND PHYSIOLOGY	4
Semester Total.....		4

Fall Semester I		Credit
CPC-110	ESSENTIALS OF MEDICAL CODING AND BILLING	2
CPC-121	INTRODUCTION TO MEDICAL PROCEDURAL CODING	5.5
CPC-126	DIAGNOSTIC CODING	4
CPC-128	INTRODUCTION TO MEDICAL INSURANCE & BILLING	3
HSC-114	MEDICAL TERMINOLOGY	3
Semester Total.....		17.5

Spring Semester I		Credit
CPC-131	MEDICAL INSURANCE AND BILLING II	3
CPC-150	MEDICAL PROCEDURAL CODING	3
CPC-160	APPLICATIONS OF PROCEDURAL CODING	2
ENG-131	BUSINESS ENGLISH	3
MAP-401	MEDICAL LAW AND ETHICS	1
MAP-431	HUMAN RELATIONS	1
MAP-532	HUMAN BODY: HEALTH AND DISEASE	3
Semester Total.....		16

Summer Semester		Credit
CPC-810	MEDICAL CODING AND BILLING EXTERNSHIP	2.5
CPC-945	MEDICAL CODING AND BILLING SEMINAR	1
Semester Total.....		3.5
Program Total.....		41

Where will this take me?

Billing Specialist - Clinic/Physicians's office

www.scciowa.edu (319) 208-5000

Insurance Specialist - Clinic/Physician's office
 Medical Auditor
 Medical Coder- Clinic/Physician's office
 Medical Insurance Claims Adjuster
 Medical Insurance Salesperson

Instructor and Staff

Megan Massner
 Instructor/Coordinator
 (319) 208-5000 ext. 5203
mmassner@scciowa.edu
 Diploma, Southeastern Community College

Deb Shaffer
 Instructor
 (319) 208-5000 ext. 5213
dshaffer@scciowa.edu

AAS, Mt. St. Clare College
 ADN, Southeastern Community College

Anne Abel
 Instructor
 (319) 208-5293
aable@scciowa.edu

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Medical Scribe - Certificate

Admission standards apply to this program. Please contact Enrollment Services for more details.

- A) ACT reading score of 19, ACT reading score of 330, Classic ACCUPLACER reading score of 73 or Next-Gen ACCUPLACER score of 248.
- B) ACT numerical score of 19, SAT math score of 510, or ALEKS math score of 14 or higher.
- C) Students will be required to score 35 net words per minute on a typing test.
- D) Satisfy "Iowa Core Performance Standards".
- E) Standardized placement scores must be current (completed within 24 months) at time of enrollment.
- F) Students will be required to pass a mandatory background check.
- G) Students will be required to submit (at their own expense) a completed physical examination form and immunizations.

All health career programs require students to earn a grade of "C" (2.0) or above in all coursework within the program. All other eligibility requirements must be met.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I	Credit
BIO-163 ESSENTIALS OF ANATOMY AND PHYSIOLOGY	4
HSC-114 MEDICAL TERMINOLOGY	3
MAP-401 MEDICAL LAW AND ETHICS	1
MAP-431 HUMAN RELATIONS	1
MTR-158 INTRODUCTION TO MEDICAL SCRIBE	7
Semester Total.....	16
Program Total.....	16

Where will this take me?

- Medical Scribe in a Physician's Office/Clinic
- Medical Scribe in an Emergency Room
- Medical Scribe in a Hospital Setting

Instructor and Staff

Megan Massner
Instructor/Coordinator
(319) 208-5000 ext. 5203
mmassner@scciowa.edu
Diploma, Southeastern Community College

Deb Shaffer
Instructor
(319) 208-5000 ext. 5213
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AAS, Mt. St. Clare College
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Anne Abel
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Modern Food Production, Agriculture and the Environment - Certificate, Diploma and AAS

After successful completion of the first semester, the Modern Food Production Certificate will be awarded.

After successful completion of the first two semesters the Introduction to Modern Food Production, Agriculture & The Environment Diploma will be awarded.

In Spring I semester students must take at least 9 credit hours from the elective grouping AGA-376, AGB-331, AGC-420, AGM-157, AGS-225, and AGS-226.

In Fall II semester, students must take at least 6 credit hours from the elective grouping AGA-158, AGA-211, AGB-437, AGB-466, AGC-937, AGH-112, AGN-130, AGS-270, AGS-319, AGS-331 and AGT-250.

In Spring II semester, students must take at least 6 credit hours from each of the two elective groups.

West Burlington Campus

		Summer Semester		Credit
Fall Semester I		Credit	MAT-120 COLLEGE ALGEBRA	3
AGB-336	AGRICULTURAL SELLING	3	MAT-156 STATISTICS	3
AGC-216	CAREER SEMINAR	2	MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
Take at least 3 credit hours from these courses:			Semester Total.....	6-8
AGA-114	PRINCIPLES OF AGRONOMY	3		
AGH-221	PRINCIPLES OF HORTICULTURE	3	Fall Semester II	Credit
Take at least 3 credit hours from these courses:			AGB-330 FARM BUSINESS MANAGEMENT	3
AGB-235	INTRODUCTION TO AGRICULTURE MARKETS	3	AGB-470 FARM RECORDS, ACCOUNTS, ANALYSIS	3
BUS-102	INTRODUCTION TO BUSINESS	3	Take at least 6 credit hours from these courses:	
Take at least 3 credit hours from these courses:			AGA-158 SOIL FERTILITY	3
AGH-131	GREENHOUSE MANAGEMENT (online)	3	AGA-211 GRAIN AND FORAGE CROPS	3
AGS-113	SURVEY OF THE ANIMAL INDUSTRY	3	AGB-437 COMMODITY MARKETING	3
Take at least 3 credit hours from these courses:			AGB-466 AGRICULTURAL FINANCE (online)	3
AGP-329	INTRODUCTION TO GPS	3	AGC-937 OCCUPATIONAL EXPERIENCE II	3
DRF-113	FUNDAMENTALS OF TECHNICAL DRAFTING	3	AGH-112 INTRODUCTION TO TURF GRASS MANAGEMENT	3
Semester Total.....	17		AGN-130 SOIL AND WATER CONSERVATION	3
Spring Semester I		Credit	AGS-270 FOODS OF ANIMAL ORIGIN (online)	3
AGA-154	FUNDAMENTALS OF SOIL SCIENCE	3	AGS-319 ANIMAL NUTRITION (online)	3
AGA-390	INTRODUCTION TO RENEWABLE RESOURCES	3	AGS-331 ANIMAL REPRODUCTION (online)	3
Take at least 9 credit hours from these courses:			AGT-250 FOOD AND BIOSECURITY ISSUES	1
AGA-376	INTEGRATED PEST MANAGEMENT	3	Take at least 3 credit hours from these courses:	
AGB-331	ENTREPRENEURSHIP IN AGRICULTURE (online)	3	MAT-110 MATH FOR LIBERAL ARTS	3
AGC-420	ISSUES IN AGRICULTURE	3	MAT-120 COLLEGE ALGEBRA	3
AGM-157	MACHINERY MANAGEMENT	3	MAT-156 STATISTICS	3
AGS-225	SWINE SCIENCE	3	MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
AGS-226	BEEF CATTLE SCIENCE	3	PHS-165 INTRODUCTION TO METEOROLOGY	3
Take at least 3 credit hours from these courses:			PHY-106 SURVEY OF PHYSICS	4
ENG-105	COMPOSITION I	3	Semester Total.....	15-20
ENG-111	TECHNICAL WRITING (online)	3	Spring Semester II	
SPC-112	PUBLIC SPEAKING	3	Take at least 6 credit hours from these courses:	
Semester Total.....	18		AGB-210 AGRICULTURE LAW (online)	2
Summer Semester		Credit	AGH-260 FRUITS AND VEGETABLES	3
AGC-936	OCCUPATIONAL EXPERIENCE	3	AGM-155 FARM EQUIPMENT MANAGEMENT	2
Take at least 3 credit hours from these courses:			AGM-203 AGRICULTURAL WELDING	2
<i>www.scciowa.edu (319) 208-5000</i>			AGN-244 WILDLIFE MANAGEMENT	3
			AGS-216 EQUINE SCIENCE	3
			AGS-242 ANIMAL HEALTH (online)	3
			Revised: 6/1/2023 5:21p.m.	45

Spring Semester II		Credit
ELE-130	HOME AND FARM ELECTRICITY	2
ENV-145	CONSERVATION BIOLOGY	4
Take at least 6 credit hours from these courses:		
ECN-130	PRINCIPLES OF MICROECONOMICS	3
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
PSY-102	HUMAN AND WORK RELATIONS	3
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3
Semester Total.....		12-13
Program Total.....		68-76

Where will this take me?

Animal Handler
Agricultural Crop Worker
Farm Business Management
Horticultural Worker
Soil and Water Conservationist
Nursery or Greenhouse Manager
Farm Product Buyer or Purchasing Agent

Instructor and Staff

Sabrina Pidgeon
Assistant Professor
(319) 208-5000 ext. 5104
spidgeon@scciowa.edu
BS, Iowa State University

Adam Raub
Professor
(319) 208-5000 ext. 5103
araub@scciowa.edu
BS, Western Illinois University
MBA, St. Ambrose University

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Modern Food Production, Agriculture & the Environment - Agriculture Business Pathway - Certificate, Diploma and AAS

This is a suggested list of courses within the program for those interested in an agricultural business area of study.

After successful completion of the first semester, the Modern Food Production Certificate will be awarded.

After successful completion of the first two semesters the Introduction to Modern Food Production, Agriculture & The Environment Diploma will be awarded.

West Burlington Campus (Keokuk campus offers select courses)	Program Total.....	68
Fall Semester I	Credit	Where will this take me?
AGA-114 PRINCIPLES OF AGRONOMY	3	Farm and Ranch Managers
AGB-235 INTRODUCTION TO AGRICULTURE MARKETS	3	Agricultural Plant Manager
AGB-336 AGRICULTURAL SELLING	3	Farm Products Buyer or Supply Manager
AGC-216 CAREER SEMINAR	2	Farm and Home Management Advisor
AGP-329 INTRODUCTION TO GPS	3	
AGS-113 SURVEY OF THE ANIMAL INDUSTRY	3	
Semester Total.....	17	
Spring Semester I	Credit	Instructor and Staff
AGA-154 FUNDAMENTALS OF SOIL SCIENCE	3	Sabrina Pidgeon
AGA-390 INTRODUCTION TO RENEWABLE RESOURCES	3	Assistant Professor
AGB-331 ENTREPRENEURSHIP IN AGRICULTURE (online)	3	(319) 208-5000 ext. 5104
AGC-420 ISSUES IN AGRICULTURE	3	spidgeon@scciova.edu
AGM-157 MACHINERY MANAGEMENT	3	BS, Iowa State University
ENG-111 TECHNICAL WRITING (online)	3	Adam Raub
Semester Total.....	18	Professor
Summer Semester	Credit	(319) 208-5000 ext. 5103
AGC-936 OCCUPATIONAL EXPERIENCE	3	araub@scciova.edu
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3	BS, Western Illinois University
Semester Total.....	6	MBA, St. Ambrose University
Fall Semester II	Credit	<i>Southeastern Community College values diversity in all its forms. Please visit https://www.scciova.edu/non-discrimination-statement.aspx to view our non-discrimination statement. For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit SCC's financial aid website at http://www.scciova.edu/admissions/costaid/finaid/gainemp.aspx</i>
AGB-330 FARM BUSINESS MANAGEMENT	3	
AGB-437 COMMODITY MARKETING	3	
AGB-466 AGRICULTURAL FINANCE (online)	3	
AGB-470 FARM RECORDS, ACCOUNTS, ANALYSIS	3	
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3	
Semester Total.....	15	
Spring Semester II	Credit	
AGB-210 AGRICULTURE LAW (online)	2	
AGM-155 FARM EQUIPMENT MANAGEMENT	2	
AGM-203 AGRICULTURAL WELDING	2	
ECN-130 PRINCIPLES OF MICROECONOMICS	3	
SOC-114 CONFLICT RESOLUTION IN THE WORKPLACE	3	
Semester Total.....	12	
<i>www.scciova.edu (319) 208-5000</i>		

Modern Food Production, Agriculture & the Environment-Agronomy & Row Crop Operations Pathway-Certificate, Diploma and AAS

This is a suggested list of courses within the program for those interested in an agronomy and row crop operations area of study.

After successful completion of the first semester, the Modern Food Production Certificate will be awarded.

After successful completion of the first two semesters the Introduction to Modern Food Production, Agriculture & The Environment Diploma will be awarded.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I	Credit
AGA-114 PRINCIPLES OF AGRONOMY	3
AGB-235 INTRODUCTION TO AGRICULTURE MARKETS	3
AGB-336 AGRICULTURAL SELLING	3
AGC-216 CAREER SEMINAR	2
AGP-329 INTRODUCTION TO GPS	3
AGS-113 SURVEY OF THE ANIMAL INDUSTRY	3
Semester Total.....	17

Spring Semester I	Credit
AGA-154 FUNDAMENTALS OF SOIL SCIENCE	3
AGA-376 INTEGRATED PEST MANAGEMENT	3
AGA-390 INTRODUCTION TO RENEWABLE RESOURCES	3
AGC-420 ISSUES IN AGRICULTURE	3
AGM-157 MACHINERY MANAGEMENT	3
ENG-111 TECHNICAL WRITING (online)	3
Semester Total.....	18

Summer Semester	Credit
AGC-936 OCCUPATIONAL EXPERIENCE	3
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
Semester Total.....	6

Fall Semester II	Credit
AGA-158 SOIL FERTILITY	3
AGB-437 COMMODITY MARKETING	3
AGB-330 FARM BUSINESS MANAGEMENT	3
AGB-470 FARM RECORDS, ACCOUNTS, ANALYSIS	3
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
Semester Total.....	15

Spring Semester II	Credit
AGB-210 AGRICULTURE LAW (online)	2
AGM-155 FARM EQUIPMENT MANAGEMENT	2
AGM-203 AGRICULTURAL WELDING	2
HUM-287 LEADERSHIP DEVELOPMENT STUDIES	3
PSY-102 HUMAN AND WORK RELATIONS	3
Semester Total.....	12

Program Total..... 68

Where will this take me?

First-Line Supervisors of Agricultural Crop and Horticultural Workers
 Agricultural Technicians
 Agricultural Inspectors
 Farm and Ranch Managers

Instructor and Staff

Sabrina Pidgeon
 Assistant Professor
 (319) 208-5000 ext. 5104
 spidgeon@scciowa.edu
 BS, Iowa State University

Adam Raub
 Professor
 (319) 208-5000 ext. 5103
 araub@scciowa.edu
 BS, Western Illinois University
 MBA, St. Ambrose University

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Modern Food Production, Agriculture & the Environment - Animal Science Pathway - Certificate, Diploma and AAS

This is a suggested list of courses within the program for those interested in an animal science area of study.

After successful completion of the first semester, the Modern Food Production Certificate will be awarded.

After successful completion of the first two semesters the Introduction to Modern Food Production, Agriculture & The Environment Diploma will be awarded.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I	Credit
AGA-114 PRINCIPLES OF AGRONOMY	3
AGB-235 INTRODUCTION TO AGRICULTURE MARKETS	3
AGB-336 AGRICULTURAL SELLING	3
AGC-216 CAREER SEMINAR	2
AGP-329 INTRODUCTION TO GPS	3
AGS-113 SURVEY OF THE ANIMAL INDUSTRY	3
Semester Total.....	17

Spring Semester I	Credit
AGA-154 FUNDAMENTALS OF SOIL SCIENCE	3
AGA-390 INTRODUCTION TO RENEWABLE RESOURCES	3
AGC-420 ISSUES IN AGRICULTURE	3
AGS-225 SWINE SCIENCE	3
AGS-226 BEEF CATTLE SCIENCE	3
ENG-111 TECHNICAL WRITING (online)	3
Semester Total.....	18

Summer Semester	Credit
AGC-936 OCCUPATIONAL EXPERIENCE	3
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
Semester Total.....	6

Fall Semester II	Credit
AGB-330 FARM BUSINESS MANAGEMENT	3
AGB-470 FARM RECORDS, ACCOUNTS, ANALYSIS	3
AGS-319 ANIMAL NUTRITION (online)	3
AGS-331 ANIMAL REPRODUCTION (online)	3
PHS-165 INTRODUCTION TO METEOROLOGY	3
Semester Total.....	15

Spring Semester II	Credit
AGS-216 EQUINE SCIENCE	3
AGS-242 ANIMAL HEALTH (online)	3
HUM-287 LEADERSHIP DEVELOPMENT STUDIES	3
PSY-102 HUMAN AND WORK RELATIONS	3
Semester Total.....	12

Program Total..... 68

Where will this take me?

Animal Nutritionist
 Animal Husbandry Worker
 Breeder
 Farm and Ranch Managers

Instructor and Staff

Sabrina Pidgeon
 Assistant Professor
 (319) 208-5000 ext. 5104
 spidgeon@scciowa.edu
 BS, Iowa State University

Adam Raub
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 araub@scciowa.edu
 BS, Western Illinois University
 MBA, St. Ambrose University

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Modern Food Production, Agriculture & the Environment - Conservation Pathway - Certificate, Diploma and AAS

This is a suggested list of courses within the program for those interested in a conservation area of study.

After successful completion of the first semester, the Modern Food Production Certificate will be awarded.

After successful completion of the first two semesters the Introduction to Modern Food Production, Agriculture & The Environment Diploma will be awarded.

West Burlington Campus (Keokuk campus offers select courses)

Fall Semester I	Credit
AGB-336 AGRICULTURAL SELLING	3
AGC-216 CAREER SEMINAR	2
AGH-131 GREENHOUSE MANAGEMENT (online)	3
AGH-221 PRINCIPLES OF HORTICULTURE	3
AGP-329 INTRODUCTION TO GPS	3
BUS-102 INTRODUCTION TO BUSINESS	3
Semester Total.....	17

Spring Semester I	Credit
AGA-154 FUNDAMENTALS OF SOIL SCIENCE	3
AGA-376 INTEGRATED PEST MANAGEMENT	3
AGA-390 INTRODUCTION TO RENEWABLE RESOURCES	3
AGC-420 ISSUES IN AGRICULTURE	3
AGM-157 MACHINERY MANAGEMENT	3
ENG-111 TECHNICAL WRITING (online)	3
Semester Total.....	18

Summer Semester	Credit
AGC-936 OCCUPATIONAL EXPERIENCE	3
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
Semester Total.....	6

Fall Semester II	Credit
AGA-158 SOIL FERTILITY	3
AGB-330 FARM BUSINESS MANAGEMENT	3
AGB-470 FARM RECORDS, ACCOUNTS, ANALYSIS	3
AGN-130 SOIL AND WATER CONSERVATION	3
PHS-165 INTRODUCTION TO METEOROLOGY	3
Semester Total.....	15

Spring Semester II	Credit
AGB-210 AGRICULTURE LAW (online)	2
AGM-203 AGRICULTURAL WELDING	2
AGN-244 WILDLIFE MANAGEMENT	3
HUM-287 LEADERSHIP DEVELOPMENT STUDIES	3
PSY-102 HUMAN AND WORK RELATIONS	3
Semester Total.....	13

Program Total..... 69

Where will this take me?

Soil and Water Conservationist
Forester
Nursery and Greenhouse Manager
Aquacultural Manager
Agricultural Inspector
Range Manager

Instructor and Staff

Sabrina Pidgeon
Assistant Professor
(319) 208-5000 ext. 5104
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BS, Iowa State University

Adam Raub
Professor
(319) 208-5000 ext. 5103
araub@scciova.edu
BS, Western Illinois University
MBA, St. Ambrose University

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Network Administration and Cyber Security - Diploma and AAS

During the second semester, students will take NET-101, IT Fundamentals where they have the opportunity to take CompTIA IT Fundamentals certification. At the end of the second semester, students will be eligible to receive the IT Technician Diploma.

Students will also take NET-153, Advanced Networking during the second year, which includes the CIW Network Technology Associates exam. Those who pass will receive the CIW NTA certificate.

West Burlington Campus Program Total..... 63

Fall Semester I		Credit
CIS-125	INTRODUCTION TO PROGRAMMING LOGIC WITH LANGUAGE	3
NET-122	COMPUTER HARDWARE BASICS	3
NET-142	NETWORK ESSENTIALS	3
NET-442	LINUX OPERATING SYSTEM	3
Take 1 of these courses:		
ENG-105	COMPOSITION I	3
ENG-111	TECHNICAL WRITING (online)	3
Take 1 of these courses:		
MAT-702	INTRODUCTION TO MATH APPLICATIONS	3
MAT-772	APPLIED MATH (ONLINE)	3
Semester Total.....		18

Spring Semester I		Credit
CIS-504	STRUCTURED SYSTEMS ANALYSIS	3
NET-101	IT FUNDAMENTALS	1
NET-310	VIRTUAL MACHINES	3
NET-314	WINDOWS SERVER	4
NET-637	NETWORK INTRUSION INVESTIGATION	3
Take 1 of these courses:		
HUM-287	LEADERSHIP DEVELOPMENT STUDIES	3
SOC-114	CONFLICT RESOLUTION IN THE WORKPLACE	3
Semester Total.....		17

Fall Semester II		Credit
BUS-203	PROFESSIONAL DEVELOPMENT	2
CFR-100	INTRODUCTION TO COMPUTER FORENSICS	3
NET-621	SYSTEM SECURITY	2
NET-716	DATABASE ADMINISTRATION/SERVICE APPLICATION	3
Take 1 of these courses:		
PSY-111	INTRODUCTION TO PSYCHOLOGY	3
SOC-110	INTRODUCTION TO SOCIOLOGY	3
Semester Total.....		13

Spring Semester II		Credit
CIS-810	EMERGING TECHNOLOGIES SEMINAR	1
NET-153	ADVANCED NETWORKING	4
NET-717	EMAIL APPLICATIONS	3
NET-820	NETWORK INTERNSHIP	4
SPC-112	PUBLIC SPEAKING	3
Semester Total.....		15

Where will this take me?

Network Administrator
Network Technician
Network Installer

Instructor and Staff

Brenda Wamsley
Assistant Professor
(319) 208-5000 ext. 5195
bwamsley@sccciowa.edu
Diploma, Indian Hills Community College
AAS, Southeastern Community College
BGS, Western Illinois University

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Nursing - Diploma and AAS

Admission standards and application deadlines apply to this program. Please contact Enrollment Services for more details.

- A) High school diploma or equivalency.
- B) ACT reading score of 19, SAT reading score of 330, Classic ACCUPLACER reading score of 73, or Next-Gen ACCUPLACER reading score of 248.
- C) ACT numerical score of 18, SAT math score of 510, or ALEKS math score of 14 or higher.
- D) ACT English score of 17 (or composite of 20), SAT English score of 310 (or composite of 1040), Classic ACCUPLACER sentence skills of 82, or Next-Gen ACCUPLACER score of 262.
- E) Standardized placement scores must be current (completed within 24 months) at time of enrollment.
- F) BIO-168 Human Anatomy and Physiology I with a grade of C or better.
- G) BIO-173 Human Anatomy and Physiology II with a grade of C or better.
- H) BIO-186 Microbiology with a grade of C or better.

Students are required to attend nursing orientation and complete the following requirements once admitted to the program:

- A) Students will be required to pass a mandatory background check.
- B) Active LPN licensure-unrestricted.
- C) Students will be required to submit (at their own expense) a completed physical examination form and immunizations for health care providers.
- D) Current Iowa Certification as a Certified Nursing Assistant**.
- E) Current certification in CPR-Basic Life Support for Healthcare Providers**.
- F) Current certification in Mandatory Reporter-Adult & Child Abuse**.
- G) Signed Confidentiality Agreement.
- H) Current HIPAA Certification.
- I) Current Blood Borne Pathogen certification.

**Certifications may be obtained at Southeastern Community College. Students should work with an Enrollment Specialist for the appropriate courses and dates to obtain these certifications.

All health career programs require students to earn a grade of "C" (2.0) or above in all coursework within the program. All other eligibility requirements must be met.

Practical Nursing Diploma will be awarded after successful completion of the first three semesters.

View Program Outcome and Accreditation information at <https://nursing.iowa.gov/>

West Burlington Campus (Keokuk campus offers select courses)				Summer Semester II	Credit
Prerequisite				ADN-145 ROLE TRANSITION	1
Credit				ADN-221 PHARMACOLOGY II	2
BIO-168	HUMAN ANATOMY AND PHYSIOLOGY I	4	PSY-111 INTRODUCTION TO PSYCHOLOGY	3	
BIO-173	HUMAN ANATOMY AND PHYSIOLOGY II	4	Semester Total.....	6	
BIO-186	MICROBIOLOGY	4	Fall Semester II	Credit	
Semester Total.....		12	ADN-641 NURSING III	14.5	
Summer Semester I				SOC-110 INTRODUCTION TO SOCIOLOGY	3
Credit				Semester Total.....	17.5
ENG-105	COMPOSITION I	3	Spring Semester II	Credit	
PNN-160	INTRODUCTION TO NURSING PRACTICE	2	ADN-311 RN ISSUES AND TRENDS	1	
PNN-220	PHARMACOLOGY FOR NURSING I	2	ADN-642 NURSING IV	14	
Semester Total.....		7	Semester Total.....	15	
Fall Semester I				Program Total.....	86
Credit					
PNN-534	NURSING I	12.5	Where will this take me?		
PSY-121	DEVELOPMENTAL PSYCHOLOGY	3	Registered Nurse		
Semester Total.....		15.5	Licensed Practical Nurse		
Spring Semester I				Informatics Nurse Specialists	
Credit				Acute Care Nurse	
PNN-311	PN ISSUES AND TRENDS	1			
PNN-535	NURSING II	12			
Semester Total.....		13			

Instructor and Staff

Kristi Schroeder
Dean of Health Professions/Director of Nursing
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BSN, University of Phoenix
MSN, University of Phoenix

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MSN Ed., Western Governors University

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BSN, Western Governors University
MSN Ed., Western Governors University
CEN, Certified Emergency Nurse Certification

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MSN Ed., Walden University
CCRN, Critical Care Registered Nurse Certification

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BSN, Iowa Wesleyan College
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RN, Indian Hills
BSN, Kaplan University
MSN Ed., Western Governor's University

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Nurse Aide

This course is comprised of the state approved curriculum and laboratory module with the skills component. The class includes 32 hours of clinical training in a long term facility, 20 lab hours, and 36 hours lecture. Students must attend a minimum of 30 clinical hours and 15 lab hours in order to pass the class. The course also includes a module on confidentiality, professionalism, and communications. Clinical schedule will be arranged by the instructor and dates given the students on the first day of class and may include weekend hours.

West Burlington Campus (Keokuk campus offers select courses)

Required Course	Credit
HSC-168 NURSE AIDE	3.5
Semester Total.....	3.5
Program Total.....	3.5

Instructor and Staff

Alicia Anderson
Nurse Aide and Health Continuing Education Coordinator
(319) 208-5278
aanderson1@scciowa.edu
RN, Southeastern Community College
BSN, Chamberlain University

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Occupational Therapy Assistant - AAS

The Occupational Therapy Assistant Program is a 21-month (seven-term) program that prepares the student to become an Occupational Therapy Assistant (OTA). The occupational therapy assistant works with, and under the supervision of an occupational therapist, to improve and support functional performance in daily activities. OTAs, within their scope of practice, assist with the process of client evaluation, goal setting, implementation of care and documentation of occupational therapy services. Upon completion of the program, the associate degree graduate will be educationally prepared to provide service throughout the lifespan to individuals who have difficulties due to developmental, physical, cognitive and emotional impairments. After program completion, you will be eligible to take the national certification examination for occupational therapy assistants administered by the National Board for Certification in Occupational Therapy (NBCOT).

Indian Hills Community College will offer the award. This is a shared program between SCC and IHCC.

West Burlington and Online (select courses at Indian Hills Community College)

		Term 5	Credit
		OTA-171 PSYCHOSOCIAL PRACTICE FOR THE OTA (INDIAN HILLS CC COURSE)	3
Term 1	Credit	OTA-821 OTA LEVEL 1C FIELDWORK (INDIAN HILLS CC COURSE)	1
BIO-168 HUMAN ANATOMY AND PHYSIOLOGY I	4	SOC-110 INTRODUCTION TO SOCIOLOGY	3
CSC-110 INTRODUCTION TO COMPUTERS	3	HSC-226 HEALTH SOCIETY AND AGING (INDIAN HILLS CC COURSE)	3
HSC-114 MEDICAL TERMINOLOGY	3		
OTA-106 TRENDS IN OTA (INDIAN HILLS CC COURSE)	3	Take 1 of these courses:	
PSY-111 INTRODUCTION TO PSYCHOLOGY	3	MAT-110 MATH FOR LIBERAL ARTS	3
Semester Total.....	16	MAT-128 PRECALCULUS	4
		MAT-140 FINITE MATH	3
Term 2	Credit	MAT-156 STATISTICS	3
BIO-173 HUMAN ANATOMY AND PHYSIOLOGY II	4	MAT-210 CALCULUS I	4
ENG-105 COMPOSITION I	3	MAT-216 CALCULUS II	4
OTA-121 PRINCIPLES OF OT (INDIAN HILLS CC COURSE)	4	MAT-219 CALCULUS III	4
PSY-121 DEVELOPMENTAL PSYCHOLOGY	3	Semester Total.....	13-14
Semester Total.....	14	Term 6	Credit
		OTA-210 PROFESSIONAL ISSUES IN OT (INDIAN HILLS CC COURSE)	2
Term 3	Credit	OTA-831 OTA LEVEL IIA FIELDWORK (INDIAN HILLS CC COURSE)	6
OTA-131 PEDIATRIC PRACTICE FOR THE OTA (INDIAN HILLS CC COURSE)	4	Semester Total.....	8
OTA-141 THERAPEUTIC MEDIA IN OT (INDIAN HILLS CC COURSE)	3	Term 7	Credit
OTA-212 FUNCTIONAL KINESIOLOGY (INDIAN HILLS CC COURSE)	3	OTA-220 CLINICAL REASONING FOR OTA (INDIAN HILLS CC COURSE)	2
OTA-801 OTA LEVEL IA FIELDWORK (INDIAN HILLS CC COURSE)	1	OTA-841 OTA LEVEL IIB FIELDWORK (INDIAN HILLS CC COURSE)	6
Semester Total.....	11	Semester Total.....	8
		Program Total.....	83-84
Term 4	Credit	Where will this take me?	
HSC-212 PATHOPHYSIOLOGY (INDIAN HILLS CC COURSE)	3	Occupational Therapy Aide	
OTA-151 ADULT PHYSICAL DISABILITY PRACTICE FOR THE OTA (INDIAN HILLS CC COURSE)	4	Occupational Therapy Assistant	
OTA-161 TRADITIONAL AND EMERGING PRACTICE IN OT (INDIAN HILLS CC COURSE)	2	Instructor and Staff	
OTA-811 OTA LEVEL 1B FIELDWORK (INDIAN HILLS CC COURSE)	1	Deb Shaffer	
SPC-112 PUBLIC SPEAKING	3	Instructor/Coordinator	
Semester Total.....	13	(319) 208-5213	
		dshaffer@sccciowa.edu	
		AAS, Mt. St. Clare College	
		ADN, Southeastern Community College	

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Pharmacy Technician-Diploma

The Pharmacy Technology program is a nine-month (three-term) program that begins in the Winter term each year. The program is offered in an online/hybrid format with traditional practicum, laboratory and simulation settings. Graduates are prepared to function as allied health professionals under the direction of a registered pharmacist in a hospital or retail pharmacy. Pharmacy Technicians are responsible for measuring, mixing, counting, labeling and recording amounts and dosages of medications; verifying prescriptions from physicians; and maintaining patient records and insurance information. Students will complete a required practicum experience in a hospital and/or retail pharmacy. Upon successful completion of the Pharmacy Technology program, students are awarded a diploma and are eligible to take the Pharmacy Technician Certification Examination.

Indian Hills Community College will offer the award. This is a shared program between SCC and IHCC.

West Burlington Campus and Online (select courses at Indian Hills Community College)

ADN, Southeastern Community College

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Term I		Credit
BIO-163	ESSENTIALS OF ANATOMY AND PHYSIOLOGY	4
PHR-100	INTRO TO PHARMACY TECHNICIAN (INDIAN HILLS CC COURSE)	3
PHR-110	PHARMACY TECHNICIAN I (INDIAN HILLS CC COURSE)	3
PHR-145	PHARMACY SIMULATION I (INDIAN HILLS CC COURSE)	1
HSC-114	MEDICAL TERMINOLOGY	3
Semester Total.....		14

Term 2		Credit
PHR-115	PHARMACY TECHNICIAN II (INDIAN HILLS CC COURSE)	5
PHR-130	PHARMACEUTICAL CALCULATIONS (INDIAN HILLS CC COURSE)	1
HSC-212	PATHOPHYSIOLOGY (INDIAN HILLS CC COURSE)	3
PHR-148	PHARMACY SIMULATION II (INDIAN HILLS CC COURSE)	1
PHR-141	PHARMACY OPERATIONS (INDIAN HILLS CC COURSE)	3
HSC-230	EMPLOYMENT PREPARATION (INDIAN HILLS CC COURSE)	1
Semester Total.....		14

Term 3		Credit
PHR-150	PHARMACY TECHNICIAN PRACTICUM (INDIAN HILLS CC COURSE)	2
Semester Total.....		2
Program Total.....		30

Where will this take me?

Hospital Pharmacy Technician
Drug Store Pharmacy Technician

Instructor and Staff

Deb Shaffer
Instructor/Coordinator
(319) 208-5213
dshaffer@scciowa.edu
AAS, Mt. St. Clare College
www.scciowa.edu (319) 208-5000

Respiratory Care - AAS

Admission standards apply to this program. Please contact Enrollment Services for more details.

- A) ACT reading score of 19, SAT reading score of 330, Classic ACCUPLACER reading score of 73 and sentence skills of 82 or Next-Gen ACCUPLACER reading score of 248 and sentence skills of 262.
- B) ACT math score of 19, SAT math score of 510, or ALEKS math score of 14 or higher.
- C) 80% or higher on the interdepartmental math exam. Students who do not meet the 80% score should be referred to MAT-080, Math Skills I. After successful completion of the math course, the student will be expected to score 80% or above on the interdepartmental math exam in three attempts or less.
- D) Standardized placement scores must be current (completed within 24 months) at time of enrollment.
- E) Minimum GPA of "C" (2.0) for at least 12 semester hours of baccalaureate credit OR either an AA, AAS or Baccalaureate degree with a minimum of 2.0 GPA OR ACT composite of 20.

Students are expected to complete and provide documentation of the following enrollment requirements prior to beginning the first respiratory course:

- A) Students will be required to obtain clearance on criminal and adult/child abuse screening.
- B) Students will be required to submit (at their own expense) a completed physical examination form and immunizations.
- C) Current certification in CPR-Basic Life Support for Healthcare Providers**.
- D) Current certification in Mandatory Reporter-Adult & Child Abuse**.
- E) Signed Confidentiality Agreement.
- F) Proof of health insurance.

**Certifications may be obtained at Southeastern Community College. Students should work with an Enrollment Specialist for the appropriate courses and dates to obtain these certifications.

All prerequisite courses must be completed with a grade of "C" (2.0) or higher within the last 5 years. All health career programs require students to earn a grade of "C" (2.0) or above in all coursework within the program. All other eligibility requirements must be met.

West Burlington Campus

		Summer Semester	Credit
Prerequisites		PSY-111 INTRODUCTION TO PSYCHOLOGY	3
BIO-186	MICROBIOLOGY	RCP-480 ADVANCED CARDIAC CARE	2.5
CHM-122	INTRODUCTION TO GENERAL CHEMISTRY	RCP-524 RESPIRATORY CARE III	5
HSC-114	MEDICAL TERMINOLOGY	RCP-755 RESPIRATORY CARE CLINIC II	1
Semester Total.....		Semester Total.....	11.5
Fall Semester I		Fall Semester II	Credit
BIO-163	ESSENTIALS OF ANATOMY AND PHYSIOLOGY	RCP-440 CARDIO/PULMONARY DIAGNOSTICS	2
ENG-105	COMPOSITION I	RCP-450 RESPIRATORY CARE IV	3
RCP-231	INTRODUCTION TO RESPIRATORY CARE	RCP-620 NEONATAL/PEDIATRIC RESPIRATORY CARE	5
RCP-232	RESPIRATORY CARE MODALITIES	RCP-761 RESPIRATORY CARE CLINIC III	5
RCP-233	INTRODUCTION TO CLINICAL PRACTICE	Semester Total.....	15
Semester Total.....		Spring Semester II	Credit
		RCP-767 RESPIRATORY CARE CLINIC IV	8
		RCP-810 RESPIRATORY CARE PROFESSIONAL	2
		RCP-910 RESPIRATORY CARE RRT REVIEW	2
		Semester Total.....	12
Spring Semester I		Program Total.....	81
RCP-331	RESPIRATORY CARE II	Where will this take me?	
RCP-332	RESPIRATORY CARE MODALITIES II	Certified Respiratory Therapist	
RCP-333	CARDIOPULMONARY PHARMACOLOGY	Registered Respiratory Therapist	
RCP-350	PULMONARY PATHOLOGY	Instructor and Staff	
RCP-751	RESPIRATORY CARE CLINIC I	Christina Carter	
SPC-101	FUNDAMENTALS OF ORAL COMMUNICATION		
Semester Total.....			

Instructor/Clinical Coordinator
(319) 752-2731 ext. 5214
ccarter@scciowa.edu
AAS, Southeastern Community College
BA, University of the Pacific
RRT-Registered Respiratory Therapist

Stacy Lewis-Sells
Professor/Program Coordinator
(319) 752-2731 ext. 5204
slewis-sells@scciowa.edu
AAS, Kirkwood Community College
BHS, University of Missouri-Columbia
Ed.M., University of Illinois Champaign-Urbana
RRT-Registered Respiratory Therapist
RRT-ACCS, Adult Critical Care Specialist
RRT-NPS, Neonatal/Pediatric Specialist
CPFT, Certified Pulmonary Function Technologist
AE-C, Certified Asthma Educator

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Welding- Certificates, Diploma and AAS

Many welding courses are available to enroll in at times other than the traditional term dates.

Welding Diploma awarded after successful completion of first two semesters.

Basic Welding Processes Certificate awarded after successful completion of WEL-192, WEL-186, WEL-160 and WEL-111.

Advanced Welding Processes Certificate awarded after earning the prior certificate and successful completion of WEL-130, WEL-197, WEL-164, WEL-172 and MAT-702.

Advanced Manufacturing Welding Processes Certificate awarded after earning both Welding Processes Certificates and successful completion of WEL-182, WEL-198, WEL-292, WEL-235 and WEL-720.

West Burlington Campus

	Credit
Fall Semester I	
MAT-702 INTRODUCTION TO MATH APPLICATIONS	3
WEL-111 WELDING BLUEPRINT READING	3
WEL-160 ARC WELDING I (SMAW)	5
WEL-186 GAS METAL ARC WELDING	4
WEL-192 GAS TUNGSTEN ARC WELDING	4
Semester Total.....	19

	Credit
Spring Semester I	
ENG-111 TECHNICAL WRITING (online)	3
WEL-130 OXYACETYLENE WELDING	2
WEL-164 ARC WELDING II (SMAW)	4
WEL-172 ADVANCED SHIELDED METAL ARC WELDING II	4
WEL-197 GAS TUNGSTEN ARC WELDING - TUBE	3
Semester Total.....	16

	Credit
Summer Semester	
SOC-115 SOCIAL PROBLEMS	3
Semester Total.....	3

	Credit
Fall Semester II	
DRF-113 FUNDAMENTALS OF TECHNICAL DRAFTING	3
SDV-125 WORKPLACE READINESS	1
SOC-114 CONFLICT RESOLUTION IN THE WORKPLACE	3
WEL-182 FLUX CORED ARC WELDING	2
WEL-198 ADVANCED GAS METAL ARC WELDING - ALUMINUM	2
WEL-292 PIPE WELDING/SMAW - UPHILL	4
Semester Total.....	15

	Credit
Spring Semester II	
MGT-130 PRINCIPLES OF SUPERVISION	3
PSY-102 HUMAN AND WORK RELATIONS	3
WEL-235 LAYOUT & FABRICATION	4
WEL-720 INTRODUCTION TO ROBOTIC ARC WELDING	2
Semester Total.....	12
Program Total.....	65

Where will this take me?

Construction Welder
Industrial Welder
Maintenance Welder
Pipe Welder

Instructor and Staff

Mike Kaczinski, Evening
Assistant Professor
(319) 208-5000 ext. 5130
mkaczinski@scciowa.edu
AWS Certified Welding Educator (CWE)
AWS Certified Welding Inspector (CWI)

Bill (William) White, Days
Assistant Professor
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AWS Certified Associate Welding Inspector (CAWI)

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Placement Charts

Mandatory Score Placement Charts

ALEKS Math Placement Chart	
Range (%)	Course Placement
0 - 13	Basic Math/Pre-Algebra MAT-052
14-29	Elementary Algebra MAT-062 Intro to Math Applications MAT-702
30-45	Intermediate Algebra MAT-092 Math for Liberal Arts MAT-110 Math for Elementary Teachers MAT-112/113 Math Applications MAT-704
46-60	College Algebra & Trig MAT-127 Finite Math MAT-140 Statistics MAT-156
61-75	Pre-Calculus MAT-128 Business Calculus MAT-165
76-100	Calculus I MAT-210

ESL Course Placement Chart	
Accuplacer Score	ESL Course Level Placement
60 or below	Level I
61-70	Level II
71-80	Level III
81-90	Level IV
91 or above	Level V

SCC Writing Scores & Mandatory Course Placement Chart - No Waivers

Next-Gen Accuplacer Writing Score	Accuplacer Sentence Skills Score	ACT English Score	Write Placer Score	Write Placer Score	Write Placer Score	Write Placer Score	Write Placer Score	Write Placer Score	Write Placer Score	Write Placer Score	Write Placer Score	
Score	Score	Score	0	1	2	3	4	5	6	7	8	
200-219	20-39	1-5	ENG-013	ENG-013	ENG-013	ENG-013	ENG-013	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131
220-239	40-59	6-11	ENG-013	ENG-013	ENG-013	ENG-013	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	
240-259	60-79	12-15	ENG-013	ENG-013	ENG-013	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	
260-279	80-99	16-19	ENG-013	ENG-013	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	
280-300	100-120	20-36	ENG-013	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 w/ ENG-067 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	ENG-105 or ENG-110 or ENG-111 or ENG-131	

Course Descriptions

A brief narrative description of each course offered by Southeastern Community College is found in this section. Descriptions also contain the course number, course title, number of lecture and laboratory hours, and the number of semester hours of credit granted upon successful completion of each course. The Iowa community colleges have developed a systematic numbering system for all the credit courses they offer. The goal of this common course numbering system is to facilitate transfer and articulation processes for community college students in Iowa. ABC Discipline prefix of program or subject 123
000-099 developmental courses
100-899 courses intended to meet specific requirements for certificates, diplomas, and degrees in career and technical and transfer programs
900-999 generic focus courses such as special topics, OJT, internships

ACC.....	65
ADM.....	66
ADN.....	66
AGA.....	67
AGB.....	67
AGC.....	68
AGH.....	68
AGM.....	68
AGN.....	69
AGP.....	69
AGS.....	69
AGT.....	70
ANI.....	70
ARC.....	71
ART.....	71
ATR.....	72
AUT.....	72
BCA.....	73
BIO.....	73
BUS.....	75
CAD.....	76
CFR.....	76
CHM.....	76
CIS.....	77
COM.....	77
CON.....	78
CPC.....	78
CRJ.....	79
CRR.....	80
CSC.....	81
DRA.....	81

DRF.....	82
ECE.....	82
ECN.....	82
EDU.....	82
EGR.....	83
EGT.....	83
ELE.....	83
ELT.....	84
EMS.....	85
ENG.....	86
ENV.....	87
ESI.....	87
ESL.....	87
FIN.....	89
FLF.....	89
FLG.....	89
FLS.....	89
GEO.....	89
GRA.....	90
HEQ.....	91
HIS.....	91
HIT.....	91
HSC.....	91
HSV.....	92
HUM.....	93
IND.....	93
LGL.....	94
LIT.....	94
MAP.....	94
MAT.....	95
MFG.....	97
MGT.....	98
MKT.....	98
MMS.....	99
MTR.....	99
MUA.....	99
MUS.....	100
NET.....	100
OTA.....	102
PEA.....	103
PEC.....	103
PEH.....	104
PET.....	104
PEV.....	104
PHI.....	105
PHR.....	105
PHS.....	105
PHY.....	106
PNN.....	106
POL.....	107
PRL.....	107
PSY.....	107
RCP.....	107
RDG.....	109
REL.....	109
SCI.....	109

SDV.....	109
SMM.....	110
SOC.....	110
SPC.....	111
WDV.....	111
WEL.....	111

Course Prerequisites

The instructor of any course (other than health careers classes and ENG-105) may waive any stated prerequisite of the course when, in the judgment of the instructor, the student can demonstrate sufficient evidence to justify enrollment.

Course Offerings

If there is sufficient demand, courses may be offered more frequently than announced. Insufficient demand or unforeseen staffing problems may result in the cancellation of announced offerings. Southeastern Community College reserves the right to alter the course offerings and/or course content without further notice. Students are advised to consult the schedule of classes available in Enrollment Services.

Accounting (ACC)

ACC-111 INTRODUCTION TO ACCOUNTING **Lec 3 Credit 3**

An introduction to financial accounting theory and practice, with an emphasis on the accounting cycle and computer application thereof. This course is designed for non-business majors.

ACC-131 PRINCIPLES OF ACCOUNTING I **Lec 4 Credit 4**

This first course covering the principles of accounting introduces the basic terms, concepts, and procedures of the double-entry system of accounting. The course is intended for students who will major in accounting or have chosen a career which requires extensive use of accounting information. During the course, the focus will be on the completion of the accounting cycle, including the preparation of journal entries, posting to the ledger, and the preparation of adjusting entries, financial statements, and closing entries at the end of the accounting period. Specific attention will also be given to special journals and subsidiary ledgers, the information needed to account for merchandising businesses, and the special accounting procedures related to cash, receivables, payables, and systems of control. Prerequisite: A COMPASS Pre-Algebra score of 50 or higher, COMPASS Algebra score of 36 or higher, ACT Math score of 19 or higher, or equivalent AND COMPASS Reading score of 61 or higher, ACT Reading score of 15 or higher, or equivalent.

ACC-132 PRINCIPLES OF ACCOUNTING II **Lec 4 Credit 4**

A continuation of Principles of Accounting I, the second principles of accounting course will proceed through the recognition, valuation, and financial reporting requirements for merchandise inventory, fixed assets, intangibles, payroll, current liabilities, and long-term liabilities, before looking at the specific accounting issues related to corporations and partnerships. The course will conclude with coverage of the Statement of Cash

Flows and financial statement analysis. Prerequisite: ACC-131.

ACC-142 FINANCIAL ACCOUNTING **Lec 3 Credit 3**

An introduction to financial accounting theory and practice with emphasis on the use and interpretation of financial statements.

ACC-146 MANAGERIAL ACCOUNTING **Lec 3 Credit 3**

An introduction to managerial accounting and practice with emphasis on the sources and uses of data for decisions. Prerequisite: ACC-142.

ACC-161 PAYROLL ACCOUNTING **Lec 3 Credit 3**

Payroll accounting emphasizes the methods of computing wages and salaries, the methods of keeping records, and the preparation of government reports. Extensive coverage of federal and state laws impacting payroll accounting is provided. During the course of the semester, students will explore numerous manual and computerized payroll systems.

ACC-231 INTERMEDIATE ACCOUNTING I **Lec 3 Lab 2 Credit 4**

This first course in Intermediate Accounting examines the generally accepted accounting principles applied in income determination and balance sheet presentation. The primary purpose is the preparation of financial statements in a meaningful, understandable and adequate manner for the external user. After a preliminary review of the basic accounting process, the content and format of the income statement and balance sheet, the course material will specifically consider the balance sheet classifications of cash, temporary investments, receivables, inventories, plant and intangible assets. Prerequisite: ACC-132 or ACC-142.

ACC-232 INTERMEDIATE ACCOUNTING II **Lec 3 Lab 2 Credit 4**

A continuation of ACC-231, this course will continue to examine the generally accepted accounting principles as applied to income determination and balance sheet preparation. The course will specifically consider the classification, recognition, and valuation of current liabilities, bonds and

other long-term liabilities, stockholders' equity, dividends, dilutive securities and their effect on earnings per share, leases, pensions, and income taxes. The course will conclude with coverage of the Statement of Cash Flows. Prerequisite: ACC-231.

ACC-261 INCOME TAX ACCOUNTING **Lec 3 Credit 3**

Coverage of income tax returns for individuals, including filing requirements, gross income inclusions and exclusions, dependency requirements, itemized deductions, etc.

ACC-311 COMPUTER ACCOUNTING **Lec 3 Credit 3**

Studies payroll records and payroll taxes imposed by state and federal agencies. The course will focus on computerized accounting records, including general ledger, accounts receivable, accounts payable, depreciation and payroll systems.

ACC-332 COMPUTER ACCOUNTING - QUICKBOOKS **Lec 2 Credit 2**

This course is designed to apply the fundamental accounting principles in a computerized environment by using the text/workbook combined with computerized standard accounting software package. Also electronic spreadsheets will be explored. A prior knowledge of accounting is required and knowledge of Windows will be helpful. It is necessary that each student be able to set aside lab time to complete assignments, either in the computer labs or a similar computer with computerized standard accounting software package. Prerequisites: ACC-131, ACC-142. Pre- or Co-requisite: ACC-111.

ACC-932 INTERNSHIP **Lec 0 OJT 16 Credit 4**

Accounting students who have completed the prerequisite courses may use this opportunity to gain practical experience in the field of accounting. Student placement will vary, depending upon availability of internship positions. The specific arrangements for the nature of the work and scheduling of contact hours will be made under the supervision of the employer. Prerequisites: ACC-132, ACC-806, CSC-110 and ENG-105

Administrative Professional (ADM)

ADM-117 KEYBOARDING AND DOCUMENT PRODUCTION

Lec 2 Lab 2 Credit 3

A fundamental course in developing keyboarding skills for business and personal use. Students use Microsoft Word to learn proper formatting of office letters and memos, business and academic reports, tables, newsletters, flyers and graphics. Proper keyboarding technique, accuracy and speed building are emphasized.

ADM-120 ADVANCED DOCUMENT PRODUCTION

Lec 1 Lab 4 Credit 3

Students use Microsoft Word to create office documents and apply advanced formatting and production techniques including mail merge, header/footer manipulation, report generation and custom formatting. Standard formats of advanced tables, agendas, minutes, itineraries, news releases, resumes and medical and legal documents are learned, and online collaboration is introduced. This class continues to emphasize proper keyboarding technique, accuracy and speed building. Prerequisite: ADM-117.

ADM-133 BUSINESS MATH AND CALCULATORS

Lec 3 Credit 3

This course will focus on the use of 10-key calculators to review arithmetic fundamentals and solve common business problems, including banking, payroll, weights and measurements, percentage, commissions, discounts, mark-ups, interest, borrowing by business, consumer credit, sales taxes, property taxes, income taxes, and insurance. Prerequisite: Meet minimum test score requirements.

ADM-149 TRANSCRIPTION

Lec 2 Lab 2 Credit 3

Designed for students in the Administrative Professional program to develop skills in transcribing various

business documents. Prerequisites: ADM-120 and ENG-131.

ADM-162 OFFICE PROCEDURES

Lec 3 Credit 3

Duties, responsibilities, and personal qualifications of the office worker are emphasized. Efficient work procedures in completing common office tasks, office environment and personal development are typical areas studied.

ADM-171 RECORDS MANAGEMENT

Lec 1 Lab 2 Credit 2

This course is designed to familiarize students with alphabetic, numeric, geographic and subject filing systems. Both manual and electronic systems will be utilized. Prerequisite: ADM-117 or CSC-110.

ADM-186 LEGAL DOCUMENTS

Lec 1 Lab 2 Credit 2

This is a specialized course in which legal documents are studied. Emphasis is on creating and completing legal documents electronically. Transcription skills are refined with a concentration on legal documents. Legal terminology is applied throughout the course. Prerequisites: ADM-120.

ADM-198 LEGAL TERMINOLOGY

Lec 1 Lab 2 Credit 2

This course is a study of the basic terminology used in a legal office. Emphasis will be placed on legal terminology definitions and on a study of court cases that pertain to the topics being covered.

ADM-204 LEGAL OFFICE PROCEDURES

Lec 3 Credit 3

This course is an introduction to the career of Administrative Legal Professional based on the Basic Manual for the Lawyer's Assistant written by NALS, the association for legal professionals. Students consider career paths, study the court system, review communication skills, learn how to keep the law library current, and review ethical guidelines for legal office workers.

ADM-230 INTEGRATED OFFICE PROJECTS

Lec 1 Lab 4 Credit 3

This course is designed to enhance and reinforce software skills through project-based activities by extensive use of integrating applications. Students complete projects that represent what is required in an actual business environment. This class will develop teamwork, creativity, decision making and critical thinking skills as will be experienced in the office setting. Software used includes Microsoft Word, Excel, Access, PowerPoint, Publisher and the Internet. Continued emphasis on proper keyboarding technique, accuracy and speed building. Prerequisites: ADM-120.

ADM-235 ADVANCED INTEGRATED OFFICE PROJECTS

Lec 1 Lab 3 Credit 3

An advanced course to integrate mastery level skills using Microsoft Word, Excel, Access, Outlook, PowerPoint, Publisher, the Internet and voice recognition software. Students work in an office-style environment requiring self-discipline and resourcefulness to manage communications, create effective presentations, solve business problems, make financial decisions, manage data, conduct business research and manage schedules. Continued emphasis on proper keyboarding technique, accuracy and speed building. Prerequisites: ADM-230

Associate Degree Nursing (ADN)

ADN-145 ROLE TRANSITION

Lec 1 Credit 1

This course allows associate degree nursing students to explore the role expectation of the registered nurse and facilitate the transition from practical nursing to registered nursing. An emphasis is placed on health education and advanced application of the nursing process. Prerequisites: Successful completion of Practical Nursing Diploma or LPN license.

ADN-221 PHARMACOLOGY II

Lec 2 Credit 2

This course focuses on concepts of pharmacology with special emphasis on the role of the nurse in developing a comprehensive approach to the clinical

application of drug therapy through the use of the nursing process. Understanding how drugs work and their relationship to expected outcomes and possible adverse reactions is explored. Recognition of safe dosage ranges, potential interactions, patient factors that affect drug actions, and safe administration techniques are included. The education of clients about their drug therapies is a crucial component. Prerequisites: PNN-160, PNN-220, PNN-311, PNN-534 and PNN-535. Corequisite: ADN-145.

ADN-311 RN ISSUES AND TRENDS

Lec 1 Credit 1

This course assists the associate degree nursing student to begin the transition to an autonomous nursing practice. Career development, opportunities, and challenges of the registered nurse are explored in relation to changing health care trends. Principles of leadership and management are introduced. Prerequisite: ADN-641.

ADN-641 NURSING III

Lec 9 Lab 1 Clinical Credit 15 14.5

This course integrates concepts and strands previously presented in the curriculum. A systematic approach is utilized in planning and providing nursing care to individuals, families, and groups across the lifespan. This course emphasizes selected acute and complex alterations in health and includes advanced content related to maternal-child care. An opportunity is provided for students to expand their theoretical knowledge, to broaden the application of critical thinking to the nursing process, and to develop their nursing skills in clinical settings. Prerequisites: ADN-145, ADN-221. Corequisite: PSY-111.

ADN-642 NURSING IV

Lec 9 Clinical Credit 14 15

This course integrates concepts and strands previously presented in the curriculum. A systematic approach continues to be utilized in planning and providing nursing care to individuals, families, and groups across the lifespan (pediatrics, adult and geriatrics). This course emphasizes selected acute and complex alterations in health and includes advanced content related to mental health. An opportunity is provided for students

to expand their theoretical knowledge, to extensively apply critical thinking to the nursing process, and to continue to refine their nursing skills in clinical settings. Prerequisite: ADN-641, Corequisite: ADN-311.

Agromony (AGA)

AGA-114 PRINCIPLES OF AGRONOMY

Lec 2 Lab 2 Credit 3

Detailed studies will be made of corn and soybean production, fertilization and harvesting methods. The processing of seed and grain will also be studied in this course, along with a close look at other cropping alternatives for the corn belt area. Laboratory work will be used to increase the understanding of key concepts.

AGA-154 FUNDAMENTALS OF SOIL SCIENCE

Lec 2 Lab 2 Credit 3

This course covers soil properties affected by their formation due to climate, vegetative cover, parent material, drainage and topography. Laboratory work will be used to increase the understanding of key concepts.

AGA-158 SOIL FERTILITY

Lec 3 Credit 3

This course explains the phenomena involved in making and keeping a soil in its most economical, productive state. Students learn why soils must be managed differently due to differences in origin and make up.

AGA-211 GRAIN AND FORAGE CROPS

Lec 2 Lab 2 Credit 3

This course examines production management practices for corn, soybean, small grain, and forage crops common to Midwestern U.S. agriculture. Emphasis will be placed on growth and development, plant characteristics, management practices and problem solving.

AGA-376 INTEGRATED PEST MANAGEMENT

Lec 2 Lab 2 Credit 3

This course includes field observation of chemical control of weeds and insects and principles of safety and ecological ramifications of chemicals used in modern farming operations. The course also includes alternative pest control systems in

modern farming practices and insect and weed identification in the field. Material will also be presented to prepare the student to pass the Iowa Commercial Pesticide Core, Insects and Agriculture Weed tests. Laboratory work will be used to increase the understanding of key concepts.

AGA-390 INTRODUCTION TO RENEWABLE RESOURCES

Lec 3 Credit 3

This course will provide an overview of soil, water, plants, and animals as renewable natural resources in an ecosystem context. This history and organization of resource management and concepts of integrated resource management will be covered.

Farm Management Business (AGB)

AGB-210 AGRICULTURE LAW (ONLINE)

Lec 2 Credit 2

This course is designed to make the student aware of the legalities of the farm business in regard to estate planning, leasing, contracts and legal liability.

AGB-235 INTRODUCTION TO AGRICULTURE MARKETS

Lec 3 Credit 3

A course dealing with supply and demand for Agricultural market products, food marketing channels, farm vs. retail pricing and quality and safety. This course also covers issues in market structures, problems for farmers and agribusiness firms. The role of agriculture in the US economy and hedging with futures contracts and other risk management tools are also covered.

AGB-330 FARM BUSINESS MANAGEMENT

Lec 3 Credit 3

A study of the use of the principles of farm management in developing a farm or farm business operation.

AGB-331 ENTREPRENEURSHIP IN AGRICULTURE (ONLINE)

Lec 3 Credit 3

This course relates specifically to management of agriculture farms and businesses. Course content emphasizes budget planning, record keeping, record analysis, agricultural finance/credit, and machinery and land management. Management exercises simulating farm activities and decisions are incorporated. Computers are used to aid in the completion of these management exercises.

**AGB-336
AGRICULTURAL SELLING****Lec 3 Credit 3**

Students will gain the necessary knowledge and the techniques of selling agriculture products directly to producers. Included is knowledge of the buying process, communication skills and other factors that are beneficial in building relationships with customers.

**AGB-437
COMMODITY MARKETING****Lec 3 Credit 3**

Commodity Marketing examines basis, fundamental and technical price analysis, commodity futures, futures options, alternative cash contracts, sources and uses of marketing information, and relevant agricultural marketing strategies.

**AGB-466
AGRICULTURAL FINANCE (ONLINE)****Lec 3 Credit 3**

This course is a study of the terminology and tools of agricultural finance. It emphasizes the preparation of financial statements, cash flows, budgets and bookkeeping principles. It also discusses financial risk strategies and credit costs.

**AGB-470
FARM RECORDS, ACCOUNTS,
ANALYSIS****Lec 3 Credit 3**

Emphasis is placed on the importance of records as an essential management tool.

**AGB-930
AGRICULTURE SEMINAR****Lec 1 Credit 1**

This course is designed to enable the student to gain practical experience in the areas of farm equipment maintenance, equipment adjustment and operation, crop scouting for weeds, insects and diseases, and weed and insect management. It will be taught on an arranged basis at the SCC West Burlington campus as time

and weather influence the operations necessary.

Agricultural Miscellaneous (AGC)

**AGC-216
CAREER SEMINAR****Lec 2 Credit 2**

This course is designed to help students explore and discover the many opportunities that are available in the profession of agriculture and related industries both nationally and internationally.

**AGC-420
ISSUES IN AGRICULTURE****Lec 3 Credit 3**

This course provides students the opportunity to collect, discuss, interpret, and defend current economic, environmental and social issues that affect the production of agricultural commodities.

**AGC-936
OCCUPATIONAL EXPERIENCE****Lec 0 OJT 12 Credit 3**

An on-the-job experience at a local business. The business will provide a training sponsor in cooperation with an instructor/coordinator from the college staff. Hands-on experience in observing and demonstrating the knowledge and skills developed in the classroom.

**AGC-937
OCCUPATIONAL EXPERIENCE II****Lec 0 OJT 12 Credit 3**

An "on-the-job" experience at a local business. The business will provide a training sponsor in cooperation with an instructor/coordinator from the college staff. Hands-on experience in observing and demonstrating the knowledge and skills developed in the classroom.

Horticulture (AGH)

**AGH-112
INTRODUCTION TO TURF GRASS
MANAGEMENT****Lec 3 Credit 3**

This course covers the principles and practices of turf grass management for application to golf course, lawns, athletic fields, and playgrounds.

**AGH-131
GREENHOUSE MANAGEMENT
(ONLINE)****Lec 3 Credit 3**

Manage greenhouse air, water, soil, and light for most efficient use of resources. Pest management, plant rotation and scheduling for flower sales are included.

**AGH-221
PRINCIPLES OF HORTICULTURE****Lec 2 Lab 2 Credit 3**

This is an introductory course to students in various fields of horticulture and includes applications of scientific principles to commercial horticulture practices.

**AGH-260
FRUITS AND VEGETABLES****Lec 2 Lab 2 Credit 3**

This course discusses the principles and practices of fruit and vegetable production with emphasis on home production and small commercial production. Insects, diseases of fruits and vegetables and storage methods will be covered.

Agricultural Mechanics (AGM)

**AGM-151
FARM EQUIPMENT ADJUSTMENT****Lec 0 Lab 4 Credit 2**

Students will utilize the operator's manual to find information concerning the operation, lubrication and adjustment sections. Combine operations will be addressed as follows: perform initial calibration settings for wheat, corn and soybeans; determine type and amount of losses of grain and make adjustments to minimize those losses; and utilize the GPS unit to create GIS referenced yield data.

**AGM-155
FARM EQUIPMENT MANAGEMENT****Lec 2 Credit 2**

This course deals with fitting farm equipment to the farming unit and the repair of farm equipment.

AGM-157
MACHINERY MANAGEMENT

Lec 3 Credit 3

Student will utilize the operator's manual to find information concerning operation, lubrication and adjustment sections. In addition, students will properly adjust and operate the following equipment: 1) row crop cultivator; 2) square baler; 3) disc/harrow; 4) field cultivator. Course will also address safe handling procedures and the use of herbicides, calibration of the field sprayer for proper operation and adjusting the grain drill to plant soybeans and small seeds.

AGM-203
AGRICULTURAL WELDING

Lec 1 Lab 2 Credit 2

A shop course dealing with welding.

Natural Resources (AGN)

AGN-130
SOIL AND WATER CONSERVATION

Lec 2 Lab 2 Credit 3

Emphasis will be on environmental practices as they relate to conservation management of our natural resources. Students will discuss soil erosion, water quality, and soil and water management. Lab work required.

AGN-244
WILDLIFE MANAGEMENT

Lec 2 Lab 2 Credit 3

Students learn proper wildlife management through carefully planned and maintained reserves, preserves and refuges. Management techniques presented include those for game, non-game and aquatic animals.

Precision Agriculture (AGP)

AGP-329
INTRODUCTION TO GPS

Lec 3 Credit 3

This course is designed to provide a hands-on experience with the tools of precision agriculture: global positioning systems, geographic information systems and
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remote sensing and to incorporate the use of these tools into a management system for decision making.

AGP-340
FOUNDATIONS OF GIS AND GPS

Lec 2 Lab 2 Credit 3

This course will enable the students to use and demonstrate the principles of GPS, GIS, remote sensing and precision application equipment. Soil sampling, farm mapping, combine yield monitoring, and developing Geographic Information System databases will be explored. Students will be exposed to computers and the use of precision agriculture software. Laboratory work will be used to increase the understanding of key concepts.

AGP-421
APPLICATIONS OF GIS

Lec 1 Lab 2 Credit 2

The course will take students into advanced concepts in GIS and give hands on experience in the practical applications of a geographical information systems. Students will be enrolled in selected GIS short courses online and required to design a GIS project from scratch. They will setup the parameters for the project, collect the data, and format the final project. The project should be related to their career field.

Animal Science (AGS)

AGS-113
SURVEY OF THE ANIMAL INDUSTRY

Lec 2 Lab 2 Credit 3

Course studies ways domestic animals serve the basic needs of humans for food, shelter, protection, fuel and emotional well-being. Terminology, basic structures of the industries surrounding the production, care and marketing of domestic animals in the U.S. will also be studied.

AGS-216
EQUINE SCIENCE

Lec 3 Credit 3

This course is an introduction to concepts, practices and decisions necessary when managing horses through stages of their lives.

AGS-225
SWINE SCIENCE

Lec 3 Credit 3

This course is designed around the life cycle concept of swine management. Each period will be discussed with respect to management of nutrition, disease control, housing and proper handling. Ethical production techniques will be stressed throughout the course.

AGS-226
BEEF CATTLE SCIENCE

Lec 3 Credit 3

A course dealing with the retail beef industry, management decisions of the cow-calf and the yearling-stocker producers, major health problems and their prevention/treatment, remnant nutrition balance rations and forage resource management.

AGS-242
ANIMAL HEALTH (ONLINE)

Lec 3 Credit 3

Provides information about the cause, nature, prevention, and treatment of common health problems of farm animals. Identifies animal behavior and developing a herd health program.

AGS-270
**FOODS OF ANIMAL ORIGIN
(ONLINE)**

Lec 3 Credit 3

This is a general basic agri-food science course that deals with world food needs and available food supplies, types of food and nutritive value and use, and methods used and challenges involved in food production, transportation, preservation/processing, storage, distribution, marketing and consumption. The course covers both animal origin and non-animal origin food products.

AGS-319
ANIMAL NUTRITION (ONLINE)

Lec 3 Credit 3

A course in basic animal nutrition for swine and beef cattle. Feed utilization for maintenance/growth, reproduction and lactation is discussed. The formulation of rations on both a nutritional and economic basis as well as the substitution of ingredients will be covered.

AGS-331
ANIMAL REPRODUCTION (ONLINE)

Lec 3 Credit 3

This course is presented with the agriculture student in mind. The first unit, Physiology, addresses cellular digestion, reproduction, genetics and ecology. The

second unit, Applications, teaches the practical application of animal science. The third unit instructs students in the interpretation of performance data for judging and evaluating livestock.

Veterinarian Technician (AGT)

AGT-250 FOOD AND BIOSECURITY ISSUES Lec 1 Credit 1

This course focuses on threats to food system biosecurity. Students will research and discuss contemporary issues regarding biosecurity, vulnerabilities of the food system from pre-harvest through post-processing, consumption and potential threats by class of agents.

Animation (ANI)

ANI-101 ANIMATION SOFTWARE I Lec 2 Lab 2 Credit 3

This course will introduce students to basic computer use and to the basic processes used in animation. Students will use industry standard software to develop art assets and will be exposed to topics such as 3D modeling and sculpting, basic rigging and skinning, animation, materials and lighting and texture mapping.

ANI-102 ANIMATION SOFTWARE II Lec 2 Lab 2 Credit 3

Students will learn more advanced modeling & sculpting techniques to complete a low and hi-resolution character model. Students will also be introduced to basic lighting and compositing techniques. Prerequisites: ANI-101

ANI-103 ANIMATION SOFTWARE III Lec 2 Lab 2 Credit 3

This course teaches the skills necessary to create complex bipedal character rigs. Students will discover forward kinematics, inverse kinematics, constraints, and more in this step-by-step introduction to character rigging. Students will also gain a deeper understanding of both technical and character animation including applying

motion capture data to rigs. Pre-requisite: ANI-102 Animation Software II

ANI-104 ANIMATION SOFTWARE IV Lec 2 Lab 2 Credit 3

This course will provide students with an understanding of the visual effects and compositing workflows in animation. Students will create realistic visual effects using various simulation tools and techniques such as texture effects, particles and dynamics, motion tracking and match moving. Students will gain deeper knowledge of rendering to combine separate layers into a final image. Students will also learn advanced design principles as well as the social impact capable with motion graphics. Prerequisite: ANI-103.

ANI-106 INTRODUCTION TO ANIMATION Lec 2 Lab 2 Credit 3

This course will provide students with an applied knowledge of the 12 principles of animation, namely: squash/stretch, anticipation, staging, straight ahead/pose to pose, follow through/overlapping action, slow in/out, arcs, secondary action, timing, exaggeration, solid drawing, and appeal.

Students will use a variety of techniques to help prepare them for animating in any medium. This course will be divided into demos, exercises, lectures, and in-class critique to help students develop an understanding of Animation Principles and Techniques.

ANI-116 EXPLORING HUMAN MOVEMENT Lec 2 Lab 2 Credit 3

This course explores drawing fully realized characters and provides students with a simplified understanding of human anatomy. Students will learn to analyze figures to gain an understanding of strong body and weight mechanics as well as a good posing for animation. The groundwork for figure drawing will be established through a series of gesture and character studies with an emphasis being placed on building form through basic shapes, silhouette, proportion and expression.

ANI-117 STORY FOR ANIMATION Lec 2 Lab 2 Credit 3

The purpose of this course is to introduce students to screenplay and story development. The student will be introduced to the heroic myth, its story

structure and learn to relate it to modern screenplay construction through watching and analyzing screenplays. Students will be provided with the opportunity to develop their own story ideas and learn the stages of a typical story development pipeline through application and lecture. Upon completion of this course, students will have developed an individual story project through the animatic phase. Prerequisites: ANI-116, ENG-105

ANI-118 DESIGN FOR ANIMATION Lec 2 Lab 2 Credit 3

This course will provide students with an advanced knowledge of animation design topics including prop, environment, background, and character design. Concepts focusing on form, design, perspective, value, and color will be combined with lectures on workflow techniques and troubleshooting. This course is designed to help students become better artists through demos, exercises, lectures, and in-class critiques centered on resolving pipeline and design issues that may occur during the creation process.

ANI-166 CAPSTONE AND DEMO REEL FOR ANIMATION Lec 2 Lab 2 Credit 3

Following successful completion of animation core coursework, this course will provide the student with a basic and broad familiarity in marketing theory and foundation in branding as it potentially revisits elements in professional development. This class is designed to improve student's marketing skills and understanding of specific branding topics and big picture issues of how various aspects of marketing fit together from a brand equity perspective in order to apply it to the final project. Once a brand strategy is determined, students will help promote their ability to enter the industry workforce. They will use previously created projects to edit together a demo reel and create an electronic portfolio to use after graduation. This course will integrate all facets of the animation course work. Prerequisites: ANI-103, ANI-118, ANI-211

ANI-210 INTERMEDIATE ANIMATION Lec 2 Lab 6 Credit 5

Students will gain skills in the art of character animation as well as production

workflows and techniques by practicing the application of the 12 principles of animation. Students will build a solid foundation of timing through comprehension of the subtleties of animation, while focusing on strong body and weight mechanics as well as good posing with strong silhouettes. This course will be divided into demos, exercises, lectures, and in-class critiques. Prerequisites: ANI-106

**ANI-211
ADVANCED ANIMATION
Lec 2 Lab 6 Credit 5**

This course covers the processes and techniques used to create believable and appealing body mechanics as well as an exploration of topics such as facial animation and lip-sync techniques in animation. Quadruped body mechanics will also be analyzed to create physically accurate motion for creatures. This course will be divided into demos, exercises, lectures and in-class critique to help students develop a better understanding of the subtleties of good animation, working towards producing demo reel-quality scenes. Prerequisites: ANI-210

**ANI-932
INTERNSHIP**

Lec 0 OJT 15 Credit 4
This course is designed to provide the student with a practical experience in computer animation prior to completion of the Associate of Applied Science degree. The internship is supervised by the program coordinator. This course is also designed to help students develop materials and skills necessary to obtain and maintain employment. Prerequisite: ANI-103, ANI-118, ANI-211

**ANI-941
ANIMATION STUDIO PRACTICUM**

Lec 2 Lab 2 Credit 3
This course is designed to provide students with a practical experience in computer animation prior to completion of the Associate of Applied Science degree. This course is intended for non-interning students. This course is also designed to help students develop the materials and skills necessary to obtain and maintain employment. Prerequisite: ANI-103, ANI-118, ANI-211

Architectural (ARC)

**ARC-113
ARCHITECTURAL DRAFTING I**

Lec 2 Lab 4 Credit 4
A course designed to provide a knowledge of residential house construction and house plans. The students are required to draw architectural plans that include foundations, floor plans, electrical plans, elevations, details and perspectives. Prerequisites: CAD-101.

**ARC-129
RESIDENTIAL/LIGHT COMMERCIAL
DRAFTING**

Lec 2 Lab 4 Credit 4
Designing and drawing a complete set of plans, including specifications, calculations, and rendering for multi-family or similar two story buildings. Emphasis will also be placed on designing an energy-efficient structure. Prerequisite: ARC-113.

Art (ART)

**ART-101
ART APPRECIATION**

Lec 3 Credit 3
This course is a study of aesthetics as related to human expression, especially within the visual arts of painting, sculpture and architecture. This is a humanities-oriented course where art principles are examined as they relate to the production and interpretation of Western art in both historical and cultural contexts covering the Renaissance through post-modern periods. Students will form personal opinions about art by looking at art and evaluating art with methods taught in class.

**ART-109
NON-WESTERN ART**

Lec 3 Credit 3
A survey of art history from prehistoric to modern times of locations outside of Western civilization. Both period style and personal styles will be compared to the lifestyles of the area. Geographical emphases will be in Africa, Eastern and Southern Asia, Central and Native North America, South America and Australia. Class work will consist of discussion of

art using slides, prints, videos, hands-on activities and field trips.

**ART-120
2-D DESIGN**

Lec 2 Lab 2 Credit 3
This beginning level course for either non-art or art majors allows the student to explore a variety of two dimensional media such as pencil, ink, pastel, watercolor, acrylics, etc., applied on paper and other types of surfaces. A variety of design styles and methods will be introduced using the various elements and principles of design.

**ART-123
3-D DESIGN**

Lec 2 Lab 2 Credit 4
This beginning level course for non-art or art majors allows the student to explore a variety of three dimensional media making constructions such as relief designs, mobiles and sculpture using a variety of media such as wood, metal, wire, paint, etc. and other media of the student's choice. A variety of design styles and methods will be introduced.

**ART-133
DRAWING**

Lec 2 Lab 2 Credit 3
A beginning drawing class in a variety of media using an assortment of subjects. The student will explore theories and concepts of drawing.

**ART-134
DRAWING II**

Lec 2 Lab 2 Credit 3
Development and techniques of a personal drawing style, a continuation of Drawing I with more emphasis on the student's individualized curriculum. Prerequisite: ART-133.

**ART-138
FIGURE DRAWING**

Lec 2 Lab 2 Credit 3
This course introduces the students to figurative drawing. We will focus on structure of the human figure and compositional representation through observation. An emphasis will be placed on refining skills of observation and proportioning of the picture plane. A dialogue on formal aspects covered in Drawing I will continue. Personal expression, approach and conceptual language will be covered through assignments and from a figurative

historical perspective. Prerequisite:
ART-133.

ART-143 PAINTING

Lec 2 Lab 2 Credit 3

A beginning painting course for non-art or art majors in a variety of media. A variety of subjects, theories and concepts will be considered.

ART-144 PAINTING II

Lec 2 Lab 2 Credit 3

Development and techniques of a personal painting style; a continuation of Painting I with emphasis on the student's individualized curriculum. Prerequisite:
ART-143.

ART-154 MIXED MEDIA

Lec 2 Lab 2 Credit 3

This beginning level course allows students to explore art projects that combine a variety of media. The course emphasizes experimentation with conceptual approaches to art. Examples of projects include mixed media on paper, on canvas, handmade art books, assemblage, and found object sculpture.

ART-157 PRINTMAKING

Lec 2 Lab 2 Credit 3

Introductory printing course with emphasis in basic printmaking techniques and processes. Printing proficiency in relief, stencil and/or intaglio prints will be pursued.

ART-173 CERAMICS

Lec 2 Lab 2 Credit 3

A beginning level course for either non-art or art majors exploring hand built pottery techniques and use of the potter's wheel.

ART-174 CERAMICS II

Lec 2 Lab 2 Credit 3

Advanced hand building and/or throwing techniques; larger scale or more in depth goals; projects may be more sculptural or one of a kind. Prerequisite: ART-173.

ART-184 PHOTOGRAPHY

Lec 2 Lab 2 Credit 3

This course introduces basic camera operations and equipment, processing, and photographic print production for both the traditional and digital cameras. Topics include contrast, depth-of-field,

subject composition, density control, film selection, proper exposure, and aesthetics. Digital image scanning, current tools, technologies and software will be covered. Students will need to provide a non-automatic 35MM camera and photographic materials.

ART-186 DIGITAL PHOTOGRAPHY

Lec 3 Credit 3

Introduces students to the use, management and manipulation of photographs as a digital medium. Students will study Photoshop as a photographic editing tool and utilize critical analysis relating to ideas of photo editing and manipulation. Content will include the technical concepts of digital image editing and manipulation in the context of historical and contemporary theories of photography as an art form.

ART-203

ART HISTORY I

Lec 3 Credit 3

A survey of art history from prehistory to the Renaissance. Both period style and personal styles will be compared to the lifestyles of the period. Emphasis will be on artists and artforms of Western cultures. Class work will consist of discussion of art using slides, prints and field trips.

ART-204

ART HISTORY II

Lec 3 Credit 3

Continuation of ART-203 from Renaissance to post-modern. Prerequisite:
ART-203.

ART-208

INTRODUCTION TO NATIVE AMERICAN ART HISTORY

Lec 3 Credit 3

This course is a general introduction and overview of Native American Art History. It will cover the establishment and development of the visual art from earliest tribes to current tribes. It will also promote awareness of the American Indian in cross-cultural and cross-disciplinary perspectives by studying the arts. The course will be taught by lecture and presentation of slides. Field trips to surrounding sites to view artifacts will be conducted when possible.

ART-928

INDEPENDENT STUDY

Lec 0 Lab 2-6 Credit 1-3

This course is intended to provide the students an opportunity to select a medium or concept and to explore it in greater depth than is possible in other art courses. Individual study projects will be determined by consultation between the student and instructor. A minimum of 32 hours of laboratory effort is required for each semester hour of credit. May be repeated for up to nine (9) semester hours of credit. Prerequisites: Any three of the following: ART-120, ART-123, ART-133, ART-143, ART-134, ART-144, ART-173, ART-174 and permission of instructor.

Automation Technology and Robotics (ATR)

ATR-118

AUTOMATION SYSTEMS

Lec 1 Lab 4 Credit 3

This course explains the operation and integration of Advanced Automation components to PLC hardware and software in industrial control systems. Students will work with Allen Bradley CompactLogix 5000 PLC and RS Logix 5000, RS Linx, and RS FactoryTalk View ME software.

Students will also study how PLCs interface to HMIs, RFID, and barcode reading using Ethernet/IP networking control systems.

ATR-135

ADVANCED AUTOMATION AND ROBOTICS

Lec 1 Lab 4 Credit 3

This course introduces basic robot operation of industrial process automation and programmed machine movement. Students learn robot safety in automated work cells and safety integrated devices. Students also study machine iRVision and automated control systems integrated with robots.

Automotive Technology (AUT)

AUT-106

www.scciowa.edu (319) 208-5000

INTRODUCTION TO AUTOMOTIVE TECHNOLOGY

Lec 1 Lab 2 Credit 2

This course will serve as an introduction to the complete automotive field, including safety, ASE certification, employment potential, customer service, employer/employee relations and the parts and service industry.

AUT-126 FUNDAMENTALS OF AUTOMOTIVE SERVICING

Lec 1 Lab 2 Credit 2

This course will familiarize students with basic scheduled maintenance. Proper usage of hand and power tools will be covered, as well as precision measuring systems and equipment. Prerequisite: A grade of C- or above in AUT-106.

AUT-166 AUTOMOTIVE ENGINE REPAIR

Lec 3 Lab 6 Credit 6

This course will introduce the internal combustion engine and the variety of designs in popular usage today. It also offers a general introduction to engine diagnosis and testing. The engine will be explored piece by piece, and the description and function of each part explained.

AUT-190 HYBRID FUNDAMENTALS

Lec 1 Lab 2 Credit 2

This course will familiarize students with general hybrid history and benefits, basic safety precautions, specific maintenance procedures, location and description of hybrid components for hybrid vehicles. Prerequisite: SCI-115

AUT-207 AUTOMATIC TRANSMISSIONS/ TRANSAXLES

Lec 2 Lab 8 Credit 6

This course discusses automatic transmission and transaxle theory, components, operation and service.

AUT-244 MANUAL DRIVETRAINS I

Lec 1 Lab 4 Credit 3

This course will introduce the student to the concepts of front- and rear-wheel drive, four-wheel and all-wheel drive vehicles. Clutches, CV joints, and universal joints will also be covered.

AUT-246 MANUAL DRIVETRAINS II

Lec 1 Lab 4 Credit 3

This course will provide the student with an understanding of differentials, as well as the major parts of a manual transmission. Inspection, maintenance, lubrication, disassembly and reassembly will be emphasized. Prerequisite: AUT-244.

AUT-405 AUTOMOTIVE SUSPENSION AND STEERING

Lec 2 Lab 6 Credit 5

This course will look closely at automotive suspension systems, manual, power and four-wheel steering, and proper vehicle wheel alignment.

AUT-505 AUTOMOTIVE BRAKE SYSTEMS

Lec 2 Lab 6 Credit 5

This course will explain and demonstrate the principles of friction and the components and operation of hydraulic brakes, including power and anti-lock brakes. Prerequisite: AUT-126.

AUT-610 AUTOMOTIVE ELECTRICAL I

Lec 2 Lab 4 Credit 4

This course will introduce to the student the theory and operation of basic electrical and electronic principles as a science. How the basics are applied to automotive electrical circuits and the proper procedures to diagnose and repair are covered. Lab sessions are spent turning theory into "hands-on" practice with meters and basic circuits.

AUT-625 AUTOMOTIVE ELECTRICAL II

Lec 4 Lab 8 Credit 8

This course will build on the electrical and electronic basics learned in AUT-610, Automotive Electrical I. The semi-conductor will be explained and the application used in the automobile will be explored. The students will learn digital logic and computer functions and operations, which make today's automobiles run. Prerequisite: AUT-610.

AUT-700 AUTOMOTIVE HEATING AND AIR CONDITIONING

Lec 1 Lab 3 Credit 2.5

This course will cover heating, venting, and air conditioning theory, components and operation. Alternative refrigerants, retrofitting, troubleshooting and service procedures will also be covered.

AUT-800 ENGINE PERFORMANCE

Lec 4 Lab 8 Credit 8

This course will study the fuel and ignition delivery systems that make the internal combustion engine perform. The course covers early carburetion through fuel injection and point type ignition to distributorless ignition systems. The students will learn the diagnosis and repair techniques needed to repair the computer-controlled automobiles of today.

AUT-911 INTERNSHIP

Lec 0 OJT 16 Credit 4

Supervised work experience with an approved auto technology employer. Individual student eligibility will be determined by the instructor. Placement will depend on the student's skill level and the availability of appropriate training sites.

Business Computer Applications (BCA)

BCA-157 INTERMEDIATE SPREADSHEETS

Lec 2 Lab 2 Credit 3

This advanced course in electronic spreadsheets emphasizes the use of advanced features of a leading electronic spreadsheet software package in a Microsoft Windows environment. Topics to be covered include spreadsheet editing, working with multiple worksheets, creating a Web page from a spreadsheet, developing spreadsheet applications, creating and using macros, using data tables and scenario management, importing data, and enhancing a spreadsheet with Visual Basic for Applications. Prerequisite: Grade of "C-" or higher in CSC-110 or CSC-140..

Biology (BIO)

BIO-105 INTRODUCTORY BIOLOGY

Lec 3 Lab 2 Credit 4

Introductory Biology is a lecture and lab course designed for non-science majors or as a refresher course of those wishing to take higher-level biology courses. Topics include chemistry of life, molecular and cellular biology, genetics, evolution, plant, animal, and fungi classification, and ecology.

**BIO-112
GENERAL BIOLOGY I****Lec 3 Lab 2 Credit 4**

First semester of Biology for majors. Intensive cellular and molecular approach to the study of biological principles with emphasis on biomolecules, cellular biology, genetics, and evolution. Prerequisite or Corequisite: CHM-165.

**BIO-113
GENERAL BIOLOGY II****Lec 3 Lab 2 Credit 4**

Second semester of biology for majors. Topics covered include: taxonomy and a survey of invertebrate and vertebrate organisms, fungi and plants. Prerequisite: BIO-112 with a minimum grade of C and CHM-165 with a minimum grade of C.

**BIO-138
FIELD ECOLOGY****Lec 2 Lab 2 Credit 3**

A study of ecology and conservation using various resources but including "A Sand County Almanac" by Aldo Leopold in conjunction with both field and lab work.

**BIO-151
NUTRITION****Lec 3 Credit 3**

This course explores nutrition as it relates to health, disease and stages of human development and life cycle. Emphasis is on essential nutrients, what they are and how they are used by the body. Food safety and food technology will be covered.

**BIO-157
HUMAN BIOLOGY****Lec 3 Lab 2 Credit 4**

Introductory course that focuses on the chemistry, histology, organization and function of major human body systems. It continues with a survey of human genetics, inheritance, evolution and ecology.

**BIO-163
ESSENTIALS OF ANATOMY AND
PHYSIOLOGY****Lec 3 Lab 2 Credit 4**

This introductory course is designed for the student needing a one-semester

combined anatomy and physiology course with laboratory. All systems will be covered with greater emphasis on the cardiovascular, respiratory, immune and urinary systems. This course also provides background for the more advanced courses BIO-168 and BIO-173

**BIO-168
HUMAN ANATOMY AND
PHYSIOLOGY I****Lec 3 Lab 2 Credit 4**

The first of a two-semester sequence providing a comprehensive study of the anatomy and physiology of the human body for college transfer and/or allied health prerequisites. Topics include body organization; homeostasis; cytology; histology; and the integumentary, skeletal, muscular, nervous systems, and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. Laboratory component includes anatomical studies using microscopy and dissection of selected organisms as well as the study of physiological concepts via experimentation. It is highly recommended that a student complete this series (BIO-168 and BIO-173) at SCC in order to maintain transferability to four-year institutions.

**BIO-173
HUMAN ANATOMY AND
PHYSIOLOGY II****Lec 3 Lab 2 Credit 4**

Second of a two-semester sequence continuing the comprehensive study of the anatomy and physiology of the human body for college transfer and/or allied health prerequisites. Includes the study of the endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. Laboratory component includes anatomical studies using microscopy and dissection of selected organisms as well as the study of physiological concepts via experimentation. Prerequisite: BIO-168 with a minimum grade of C.

**BIO-186
MICROBIOLOGY****Lec 3 Lab 2 Credit 4**

A study of microbial populations and their relationships to the human in health and diseases.

**BIO-248
INTRODUCTION TO BIOSCIENCE
TECHNOLOGY****Lec 3 Lab 2 Credit 4**

An exploration of the expanding field of biotechnology and how it impacts science and society. Fundamental biological, chemical, and mathematical principles as they apply to biotechnology are examined. Laboratory emphasizes essential methodologies employed in scientific inquiry and experimentation.

**BIO-252
BIOMOLECULAR PROCESSES
(ONLINE)****Lec 2 Lab 2 Credit 3**

This class is designed primarily for first-year students in various health-related programs. Emphasis is placed on practical aspects of inorganic chemistry, organic chemistry and biochemistry as applied to the human body.

**BIO-277
EVOLUTION****Lec 3 Credit 3**

The course is an introduction to evolution by natural selection. Topics include the origins of the Universe, Earth and life as well as Darwin and natural selection. Topics also include Mendel and genetics/DNA. The evidence for evolution is presented, as is an overview of the controversy over evolution in the United States.

**BIO-912
CURRENT TOPICS****Lec 1-3 Lab 1-6 Credit 1-3**

This topical approach to the foundational concepts of biology examines theories and issues in biology as they relate to varying special topics selected by the instructor. Biological concepts and theories that may be covered in the course include, but are not limited to, the scientific method, biological molecules, cell biology, evolution, classification, genetics, ecology and environmental issues. Due to the nature of the course, the current issues will vary. Upon completing the course, the student will have a basic understanding of the issues raised (i.e. basic information about the biology involved) and an ability to critically analyze and discuss the issues. The student will also gain experience in

utilizing library and/or Internet research resources. Depending on the credit taken, additional lab-like activities as appropriate to the topics studied will be integrated into the course.

Business (BUS)

BUS-102 INTRODUCTION TO BUSINESS

Lec 3 Credit 3

An overview of contemporary business principles touching on all the major functional areas of business and trends that are shaping today's business environment. Understanding the fundamental pillars of the business environment -- globalization, technology, and ethics -- is a crucial component in this course.

BUS-121 BUSINESS COMMUNICATIONS

Lec 3 Credit 3

Designed to help the student develop effective communication techniques necessary for general business messages. The course emphasizes application of these techniques through the composition and keyboarding of letters, memos, reports and some oral presentations.

BUS-130 INTRODUCTION TO ENTREPRENEURSHIP

Lec 3 Credit 3

Emphasizes organizational development and human resource concepts and their applications to small business operations.

Leadership development, management styles and decision making strategies are stressed.

BUS-131 SMALL BUSINESS MANAGEMENT STRATEGIES

Lec 3 Credit 3

This course emphasizes organizational development and human resource concepts and their applications to small business operations. Leadership development, management styles and decision making strategies are stressed.

BUS-135 MANAGING THE ENTREPRENEURIAL VENTURE

Lec 3 Credit 3

This course provides students with an introduction to entrepreneurship and new venture creation. Students will examine the characteristics of successful

entrepreneurs and managerial functions such as promotions and sales planning, decision making, staffing, organizing and directing. Students will develop an understanding of how financial systems, record keeping and risk management contribute to entrepreneurial success.

BUS-138 SMALL BUSINESS MARKETING

Lec 3 Credit 3

Discussions and focus are on marketing applications. Students will participate in workshops and strategies sessions on entrepreneurial topics related to market research, product development, pricing, distribution, promotion, marketing campaigns and budgets.

BUS-140 SMALL BUSINESS START-UP (ONLINE)

Lec 2 Credit 2

This course provides an introduction to the various aspects of starting a small business. There will be extensive coverage of how to create a business plan. The course will consist of various individual and group projects. Students should be able to enter the business world with the knowledge it takes to build a foundation for success in their own business.

BUS-141 SMALL BUSINESS STARTUP

Lec 3 Credit 3

This course focuses on information, examples, forms and activities needed for a business startup and for development of a successful business operation. Topics include market research and assessment, naming a business, finding a location, determining asset needs and forecasting sales, identifying job tasks and determining human resource needs, and writing a business plan. Prerequisites: BUS-135, BUS-145.

BUS-145 FINANCIAL ENTREPRENEURSHIP

Lec 3 Credit 3

Provides a straightforward practical examination of the business and financial knowledge required of the successful entrepreneur. Investigates key questions that challenge entrepreneurs such as how much money can/should be raised, from whom, what the reasonable valuation of the company is, and how funding should be structured. Prerequisite: ACC-142.

BUS-150

E-COMMERCE

Lec 3 Credit 3

This course will introduce the student to the basic elements of electronic commerce as a market where commercial activities are conducted. It will focus on business concepts and how to apply technology in order to be successful. Topics include market trends, globalizing a company, vendor solutions, storefronts, advertising, resource requirements, and operational issues of launching a commercial presence in today's global electronic marketplace.

BUS-180 BUSINESS ETHICS

Lec 3 Credit 3

This course introduces philosophical ethical theory and its application to business decisions. It considers theories of economic justice, social responsibility of corporations, regulation, conflict of interest and obligations, ethics of advertising, product quality and safety, environmental responsibility, hiring practices and rights of employers and employees.

BUS-184 BASIC LAW FOR ENTREPRENEURS

Lec 3 Credit 3

Provides a broad, practical examination of basic business law frameworks related to a new venture. Consideration is given to law-sensitive issues of intellectual property, employment law, business disputes, contracts, products liability, and white-collar crime. Students will explore key legal questions around going public, selling the company, and bankruptcy.

BUS-185 BUSINESS LAW I

Lec 3 Credit 3

The legal environment of business. The study of contract requirements, personal property and bailments, as time permits.

BUS-186 BUSINESS LAW II

Lec 3 Credit 3

A continuation of BUS-185 in the area of: sales, principal agent relationships, commercial paper, creditors rights and secured transactions, real property, and bankruptcy. Prerequisite: BUS-185.

BUS-203 PROFESSIONAL DEVELOPMENT

Lec 2 Credit 2

This course is designed to build student skills in setting goals, conversation, meetings, parliamentary procedure,

business meals and travel, customer service, presentations, professional image, and writing cover letters and resumes. The course also requires attendance at leadership, civic and cultural events.

BUS-290 EMPLOYMENT SEARCH/ WORKPLACE SUCCESS

Lec 1 Credit 1

A discussion of field experience problems and study of new occupational information will be presented. An internship paper covering the experience will be submitted. Corequisite: BUS-932.

BUS-932 BUSINESS INTERNSHIP

Lec 0 OJT 12 Credit 3

This course is designed to provide the Administrative Professional student with practical experience in a business office prior to completion of the Associate of Applied Science degree. The internship is an extension of the curriculum and provides meaningful experience related to the student's area of interest. The student is overseen by the program coordinator and by an appointed supervisor at the internship worksite. Corequisites: BUS-290 and ADM-235.

BUS-936 BUSINESS CAPSTONE

Lec 1 Credit 1

This course is designed to serve as a capstone class for Business majors. Topics covered in the course will include resumes, interview skills, and professionalism. In addition, each student will complete a case study in his/her particular area of interest including but not limited to accounting, management, marketing, and economics. In lieu of a case study, a service learning or other project may be completed. A professional presentation of whichever activity is selected will be made. An end-of-program assessment will be taken as a part of this course. Prerequisite: Student must have completed at least 48 credit hours in the Accounting or Business Administration Degree.

Computer Aided Drafting (CAD)

CAD-101 INTRODUCTION TO CAD

Lec 1 Lab 4 Credit 3

An introduction to computer aided design and drafting. Actual hands-on experience in designing, drawing, and dimensioning using CAD micro-based CAD software. The course presents logical step-by-step instruction about the CAD commands, mode settings, drawing aids, shortcuts and other valuable characteristics of CAD. Finished copies of the students' work will be made on a printer or plotter.

CAD-114 AUTOCAD (ONLINE)

Lec 1 Lab 2 Credit 2

Online only. Designed to familiarize users of CAD systems with all of the tools necessary for the efficient production of drawings. Topics that will be covered include starting and ending commands, two-dimensional drawing commands, drawing management (layers and system settings), editing and viewing commands, text commands, dimensioning techniques and styles and symbols (blocks and external references).

CAD-140 PARAMETRIC SOLID MODELING (ONLINE)

Lec 1 Lab 4 Credit 3

This course covers the basics of creating parts, modeling utilities, creating engineering drawings, and creating assemblies using solid modeling software. Prerequisites: CAD-101 and CAD-277.

CAD-172 INTRODUCTION TO CAD: AUTO CAD (ONLINE)

Lec 1 Lab 2 Credit 2

An introduction to computer aided design and drafting. Actual hands-on experience in designing, drawing, and dimensioning using AutoCAD micro-based CAD software. The course presents logical step-by-step instruction about the AutoCAD commands, mode settings, drawing aids, shortcuts and other valuable characteristics of AutoCAD. Finished copies of the students' work will be made on a printer or plotter.

CAD-230 GEOMETRIC DIMENSIONING/ TOLERANCING

Lec 1 Lab 2 Credit 2

A course designed to acquaint students with the standards (ANSI Y14.5M) for Geometrical Dimensioning and Tolerancing, which is required for all government related drawings and

manufactured products. Prerequisite: DRF-113, CAD-172 .

CAD-248 PARAMETRIC CAD II

Lec 1 Lab 4 Credit 3

A continuation of computer aided design (CAD) using SolidWorks software. The student will learn to create and print parametric solids as well as how to use SolidWorks to analyze objects. Prerequisite: CAD-180.

CAD-277 3-D DIMENSIONAL (3-D) MODELING I

Lec 1 Lab 4 Credit 3

This course teaches parametric solid model CAD basics. Three-dimensional parametric concepts with design intent and solid CAD models will be built and edited. This course builds on previous basic drafting skills and focuses on using parametric solid modeling design software to develop technical drawings. Topics include patterns of features, editing, adding dimensions and creating simple assemblies. Prerequisite: CAD-101.

Computer Forensics (CFR)

CFR-100 INTRODUCTION TO COMPUTER FORENSICS

Lec 2 Lab 2 Credit 3

This course deals with the preservation, identification, extraction, documentation and interpretation of computer data. Special computer skills and tools will be introduced. Legal concerns and ethical conduct will be emphasized. Prerequisites: NET-142, NET-314 and NET-442.

Chemistry (CHM)

CHM-115 CHEMISTRY IN CONTEXT

Lec 3 Lab 2 Credit 4

Students will learn basic general chemistry in the context of studying aspects of chemistry visible to a non-scientist in our society. Selected areas of chemistry such as water, fire, and our environment will be included, with an emphasis on the interface

between chemistry and human everyday experiences.

CHM-122 INTRODUCTION TO GENERAL CHEMISTRY

Lec 3 Lab 2 Credit 4

This introductory course is intended for non-science majors or for science majors who need a background in chemistry before taking College Chemistry I. Topics covered include properties of matter, measurements, atomic structure, chemical bonding and stoichiometry. Prerequisite: One year high school algebra or MAT-062.

CHM-165 GENERAL CHEMISTRY I

Lec 3 Lab 2 Credit 4

The first semester of a traditional two-semester sequence. General Chemistry I provides an in-depth and integrated study of chemical principles, including terminology, measurements, unit conversions, atoms, elements, molecules, compounds, moles, stoichiometry, gases and gas laws, energy, electron configurations, periodicity and chemical bonding. Prerequisite: 1 year high school chemistry or CHM-122 or BIO-252; high school algebra or equivalent.

CHM-175 GENERAL CHEMISTRY II

Lec 3 Lab 2 Credit 4

The second semester of the traditional two semester sequence. General Chemistry II covers basic principles of intermolecular forces, colligative properties, reaction kinetics, chemical equilibria, acids and bases, precipitation reactions, spontaneity and electrochemistry. Prerequisite: CHM-165.

CHM-263 ORGANIC CHEMISTRY I

Lec 4 Lab 2 Credit 5

Fundamental principles of organic chemistry for premedical, pre-dental, pre-pharmacy, biochemistry, medical technology, forestry, and home economics students, as well as liberal arts students who have a special interest in the sciences. These general principles are illustrated by preparation and study of typical representatives of the aliphatic and aromatic series including all common functional groups. Prerequisite: CHM-175.

CHM-273 ORGANIC CHEMISTRY II

Lec 4 Lab 2 Credit 5

Continuation of Organic Chemistry 1, with advanced synthesis, instrumental analysis, and emphasis on biochemistry. Prerequisite: CHM-263.

Computer Programming (CIS)

CIS-125 INTRODUCTION TO PROGRAMMING LOGIC WITH LANGUAGE

Lec 2 Lab 2 Credit 3

Introduction to computer programming with structured program development and module designs emphasized. Write programs related to several areas, including input/output, numerical computation, iteration, recursion, data manipulation, and interactive procedures.

CIS-332 DATABASE AND SQL

Lec 2 Lab 2 Credit 3

This course is an introduction to SQL as a database programming language to those already familiar with basic relational database concepts. Students will write executable SQL statements to create and maintain database objects.

CIS-366 GAME DEVELOPMENT I

Lec 2 Lab 2 Credit 3

Students will learn concepts related to mobile 2D game development and then apply what they learn to a variety of scenarios through examples and tutorials. The culmination of this course involves creating a fully functional 2D game. Prerequisite: CIS-125

CIS-367 GAME DEVELOPMENT II

Lec 2 Lab 2 Credit 3

In Game Development II, students will learn to add depth and advanced functionality into their games. Multiplayer components will be added, along with support for other languages and analytics tools in order to collect data from player behavior. The difference in mobile marketplaces along with developer requirements will be explored and techniques for monetizing games investigated. Prerequisite: CIS-337

CIS-504 STRUCTURED SYSTEMS ANALYSIS

Lec 2 Lab 2 Credit 3

Course will provide student knowledge in the complete process of systems analysis and design and the steps involved. Actual systems analysis and design lab practices will measure student's understanding. Concepts in Project Management will also be covered. Prerequisite: 15 hours of IT classes completed toward degree.

CIS-802 SOFTWARE DEVELOPMENT CAPSTONE

Lec 2 Lab 2 Credit 3

Requires application of knowledge gained from programming design in the analysis, design, scheduling, and implementation of a complete software application for mobile devices. This course should be taken in the student's final semester. Prerequisite: CIS-367. Corequisite: CIS-504

CIS-810 EMERGING TECHNOLOGIES SEMINAR

Lec 1 Credit 1

This course will provide the student with the skills to research, evaluate and make recommendations about new products and emerging technologies. Students will explore and research changing technologies and will make professional presentations of their findings. Prerequisite: 50 hours completed toward Information Technology

Communications (COM)

COM-102 COMMUNICATION SKILLS

Lec 3 Credit 3

This course is structured to develop the fundamentals of acceptable communication and technical expression relevant to the students' career requirements: reading, writing, listening, and speaking. Prerequisites: Meet minimum placement test score requirement.

Construction (CON)

CON-108 CONSTRUCTION SAFETY

Lec 1 Credit 1

The Construction Safety course will provide students with requirements and expectations required to work in the numerous facets of the construction industry. The course will introduce the national OSHA safety standards for general construction and upon completion of this course students will receive the OSHA 10 hour General Construction certification.

CON-113 CONSTRUCTION PRINTREADING

Lec 1 Lab 2 Credit 2

Stresses principles of interpreting trade blueprints and reading of specifications basic to all aspects of the trades. Deals with types of line, development and arrangement of views, dimensioning practices, and invisible edges. Practical problems from prints suited to the particular trade will be incorporated.

CON-128 CONSTRUCTION MANAGEMENT ESTIMATING

Lec 2 Lab 2 Credit 3

Interpretation of construction drawings and specifications. Introduction to estimating quantities, cost of materials, and labor costs. Work methods, job planning, project scheduling and control, field administration and management procedures of contracting will be covered.

CON-147 CARPENTRY I

Lec 3 Lab 6 Credit 6

A course designed to enable students to develop basic skills and knowledge in carpentry. Included in this course is the study of construction techniques with emphasis on basic safety, basic math, introduction to hand and power tools, basic rigging, fasteners, wood building materials, floor and wall systems, site preparation, concrete and reinforcement materials, concrete handling, and forming foundations and flatwork.

CON-148 CARPENTRY II

Lec 3 Lab 6 Credit 6

A course designed to further enable students to develop carpentry skills with emphasis on special floor, wall and roof systems, reading plans and elevations, field engineering principles, forming and water and damp proofing. Prerequisite: CON-147.

CON-149 CARPENTRY III

Lec 3 Lab 6 Credit 6

A continuation of carpentry skills with emphasis on stair construction, reinforcing concrete, patented forms, interior finish: ceiling systems, exterior wall finishes, roofing applications and installation of cornices, gutters and downspouts. Prerequisite: CON-148.

CON-252 CONSTRUCTION ELECTRICITY

Lec 1 Lab 4 Credit 3

This course introduces the requirements for and installation of residential and light commercial electrical systems. Emphasis will be placed on local and national Electrical Codes. Hands-on experience will include such activities as basic wiring of the service entrance, panel box, circuits, switches, receptacles, telephone and TV jacks, door chimes, smoke detectors and other similar electrical devices. This course is specifically designed for those students choosing a Construction or Design curriculum.

CON-262 COMMERCIAL CARPENTRY II

Lec 3 Lab 6 Credit 6

A course of further carpentry with emphasis on finished stairs, introduction to supervision, laser instruments, supplements to ceiling systems, metal studs and drywall, interior finish: doors and windows, wall and floor specialties and cabinetry. Prerequisite: CON-149.

CON-270 MECHANICAL SYSTEMS

Lec 1 Lab 4 Credit 3

A course designed to introduce students to the requirements of residential and light commercial plumbing, heating, and ventilation systems. Emphasis will be placed on local and national code requirements. Study will include the building requirements to receive each system, determining the size of system components and the theory of size calculations. Hands-on experience will include such activities as working

with DWV piping, water supply piping, plumbing fixtures, heat and vent ducting, heating controls, and ventilation components.

CON-332 CONSTRUCTION MATERIALS AND RESOURCES

Lec 3 Credit 3

This course is designed as a comprehensive overview of the construction industry and materials used in the profession. It is a conceptual treatment of the construction-personnel production system. Also included is a study of the materials of construction, their properties, manufactures, characteristics and applications.

CON-340 CONSTRUCTION SURVEYING

Lec 2 Lab 2 Credit 3

Leveling, topographic surveying, triangulation, horizontal and vertical angles, area, determination, and other basic construction applications. Includes the layout of buildings and road curvatures, care and use of instruments.

CON-345 SOILS AND CONCRETE

Lec 3 Credit 3

This course is a study of the characteristics of soil and concrete. Such components as design, core samples, grain structure, compaction and strength test, mixes, treatments, reinforcement, "slump test", etc., will be covered as well as varied application and installation methods.

CON-350 INTERNSHIP

Lec 0 OJT 20 Credit 5

Provide student with the opportunity to integrate classroom learning and experiences in a construction industry setting. Internship agreement must be completed before students may enroll. Prerequisite: At least two construction courses must be completed with a minimum of a "C" grade in each course.

Certified Professional Coder (CPC)

CPC-110

ESSENTIALS OF MEDICAL CODING AND BILLING

Lec 1 Lab 2 Credit 2

This is an introductory Course which will introduce the student to the essential components of Medical Coding and Billing. The student will identify the basics of Electronic Health Records (EHR). Students will also learn the purpose, terminology, documentation requirements, and functionality along with the legal and regulatory guidelines. This will include practice exercises to provide hands-on experience using EHR software to complete medical coding and billing tasks in the health care provider office setting. The course will also provide information on the uses of common brand and generic drug names. This information will help coders understand how to use medication information to identify situations in which further inquiry about comorbidities or complications may be necessary and ensure accurate reporting of chronic healthcare conditions.

CPC-121 INTRODUCTION TO MEDICAL PROCEDURAL CODING

Lec 5 Lab 1 Credit 5.5

This course prepares students for a career in medical coding in the medical office. Introduction to current procedural terminology (CPT) manual, HCPCS and medical coding compliance and guidelines. Corequisites: CPC-126; CPC-128

CPC-126 DIAGNOSTIC CODING

Lec 3 Lab 2 Credit 4

The course will prepare the student for application coding nuances and guidelines along with compliance as it is related to diagnostic coding. The student will be able to assign diagnostic codes reporting all applicable codes and sequence in accordance with the guidelines. Corequisites: CPC-121; CPC-128

CPC-128 INTRODUCTION TO MEDICAL INSURANCE & BILLING

Lec 3 Credit 3

This course is designed to assist students in understanding the complexities of current insurance and billing procedures in the medical office or clinic setting. The student will obtain a sound foundation of the nuances, guidelines and requirements involved. The student will be familiarized

with claims submission for major medical insurance/reimbursement programs.

Corequisites: CPC-121 & CPC-126.

CPC-131 MEDICAL INSURANCE AND BILLING II

Lec 2 Lab 2 Credit 3

This course will discuss all aspects of insurance billing for today's health care plans. The latest information on HIPAA and OIG regulations, diagnostic and procedural coding, and office and insurance collection strategies will be covered, ensuring preparation for real-world situations. Also covered will be the importance of the medical insurance specialist's role in filing clean claims, solving problems that do occur and collecting overdue payments. Prerequisites: HSC-114, MAP-431, CPC-121, CPC-126 and CPC-128.

Corequisites: CPC-150 and CPC-160.

CPC-150 MEDICAL PROCEDURAL CODING

Lec 3 Credit 3

This course will discuss the background of CPT, HCPCS coding, modifier assignment, CPT guidelines and the assignment of codes, ICD-10 selection, medical necessity regulations, documentation guidelines, HIPAA law, and how to read, interpret, and audit a chart or operative record. Prerequisites: HSC-114, MAP-431, CPC-121, MAP-105 and BIO-163. Corequisite: CPC-160.

CPC-160 APPLICATIONS OF PROCEDURAL CODING

Lec 0 Lab 4 Credit 2

This course allows the student to apply knowledge of CPT, modifier assignment, HCPCS, ICD-10 selection, with medical necessity. Prerequisites: HSC-114, MAP-431, CPC-121, MAP-105 and BIO-163. Corequisite: CPC-150.

CPC-810 MEDICAL CODING AND BILLING EXTERNSHIP

Lec 0 OJT 10 Credit 2.5

The student will be placed in a predetermined medical office, clinic or related facility, and work under the supervision of an office manager or coding/billing supervisor, and the program coordinator for a 160 hour minimum required practicum. Prerequisites: CPC-110, CPC-121, CPC-126, CPC-128, CPC-131, CPC-150, CPC-160, HSC-114,

MAP-401, MAP-431, MAP-532.

Corequisite: CPC-945.

CPC-945 MEDICAL CODING AND BILLING SEMINAR

Lec 1 Credit 1

This course prepares students for job readiness skills needed in their chosen career of medical coding and billing. The student will also be prepared to take a mock certification examination. Prerequisites: CPC-110, CPC-121, CPC-126, CPC-128, CPC-131, CPC-150, CPC-160, HSC-114, MAP-401, MAP-431, MAP-532 Corequisite: CPC-810.

Criminal Justice (CRJ)

CRJ-100 INTRODUCTION TO CRIMINAL JUSTICE

Lec 3 Credit 3

An introductory course in criminal justice designed to provide a philosophical and historical account of American criminal justice with emphasis on constitutional limitation.

CRJ-101 ETHICS IN CRIMINAL JUSTICE

Lec 3 Credit 3

Focuses on philosophical and theoretical issues and analyzes research findings to determine their implications for future practice. The student will learn how to identify and confront difficult ethical decisions they are likely to face in their daily routines.

CRJ-109 THEORIES OF INTERVIEWING

Lec 3 Credit 3

The process of gathering information from others: the interviewee, the setting, the types of questions, nonverbal communication, deception and theories of communication. Corequisites: CRJ-141.

CRJ-111 POLICE AND SOCIETY

Lec 3 Credit 3

An examination of the role of the police and corrections in American society, and a discussion of prominent issues. The course will examine the various eras of policing and correctional agencies. The structure and style of various policing and correctional agencies will also be

covered. Agency application of internal and ethical issues including use of force will be examined. Strategies and policies to improve policing and the correctional work environment will also be discussed.

CRJ-120 INTRODUCTION TO CORRECTIONS

Lec 3 Credit 3

Trace the history of corrections and describe the various methods society has used to deal with people who violate its rules. The course will show the relationship of corrections and agencies to the overall criminal justice system.

CRJ-128 VICTIMOLOGY

Lec 3 Credit 3

In this course, we will examine the field of victimology, including its scope and development, review the problems associated with victimization, examine the relationship between the victim and the offender, the victim and the criminal justice system, and the victim and society. We will also discuss various practical applications and policies that have resulted from society's increasing concern about victims.

CRJ-130 CRIMINAL LAW

Lec 3 Credit 3

A study of the history, development and classification of substantive and procedural aspects of criminal law, defenses and criminal responsibility.

CRJ-132 CONSTITUTIONAL LAW

Lec 3 Credit 3

An analysis of the relationships between state legislations and the Bill of Rights. Includes the effect of the due process clause of the 14th Amendment on the application of the Bill of Rights to these states and Supreme Court decisions regarding the various state challenges. Prerequisite: CRJ-100.

CRJ-141 CRIMINAL INVESTIGATION

Lec 3 Credit 3

Fundamental methods of investigation, crime scene search, recording, collection and preservation of evidence, interview and interrogation, and case follow-up.

CRJ-222 CORRECTIONAL TREATMENT METHODS

Lec 3 Credit 3

A criminal justice course designed to provide students the opportunity to examine and practice correctional treatment methods for diverse offender populations. Prerequisite: 48 Criminal Justice Program Credits.

CRJ-301 INTRODUCTION TO HOMELAND SECURITY

Lec 3 Credit 3

The course is an examination of the role government and, more specifically, first responders play in the current threat to our nation from terrorism. The course will examine the role, authority, and history of the government when faced with these threats. The structure, style, and current practices will be covered along with an attempt to discover best practices and cost effective solutions.

CRJ-932 INTERNSHIP

Lec 0 OJT 12 Credit 3

A practical work experience under professional supervision in a criminal justice agency. Prerequisite: Completion of Criminal Justice core or permission of instructor.

Collision Repair and Refinishing (CRR)

CRR-120 MIG (GMAW) WELDING

Lec 1 Lab 4 Credit 3

This course will serve as an introduction to metal inert gas welding or gas metal arc welding in collision repair. Students will learn how to identify and perform proper welding techniques to repair modern high strength steel cars, trucks and motorcycles.

CRR-201 PLASTIC REPAIR

Lec 1 Lab 2 Credit 2

This course will serve as an introduction to identification and repair of the most commonly used plastics on modern cars and motorcycles as used in the automotive and wind power industry. Students will learn plastic welding and bonding techniques.

CRR-300

PREPARATION

Lec 1 Lab 2 Credit 2

This course is an introductory course designed to help students identify safety hazards in the work area, safe vehicle lifting techniques and how to identify and handle hazardous materials. Students will learn how to inspect, remove and store trim, glass, metal and molding components; protect adjacent panels during repairs; remove corrosion materials and other protective coatings; review damage reports and analyze damage to determine proper method of overall repair; develop repair plan; use appropriate cleaners to remove contaminants from surfaces to be repaired; apply environmental practices associated with repair of cars, trucks and motorcycles. Prerequisite: Valid driver's license.

CRR-340 METAL STRAIGHTENING

Lec 1 Lab 4 Credit 3

This course will serve as an introduction to metal straightening and fabrication. Students will learn to manipulate and operate special equipment specifically designed to return metals back to their original shapes, contours, and fabricate panels. Students will learn to heat shrink and cold shrink metals to obtain original contours within industry standards and will learn to mix, apply and shape polyester fillers to OE appearances.

CRR-400 PANEL REPLACEMENT AND ADJUSTMENT

Lec 2 Lab 3 Credit 3.5

This course will serve as an introduction to replacement and adjustment of non-structural parts. Students will learn to determine extent of damage; remove bolted, bonded and welded parts; repair aluminum; align hoods, doors, deck lids and fenders; straighten and rough out contours to their original shapes; weld torn sheet metal; restore corrosion protection; replace door skins; repair wind, water and dust leaks.

CRR-410 FULL OR PARTIAL BODY PANEL REPLACEMENT

Lec 1 Lab 5 Credit 3.5

This course will serve as an introduction to the replacement of major structural and cosmetic weld on body panels on modern automobiles. Students will learn I-CAR based body panel and structural component

sectioning techniques using metal inert gas welding and bonding materials.

CRR-454

GLASS REPLACEMENT

Lec 1 Lab 2 Credit 2

This course will serve as an introduction to replacement of broken tempered and laminated safety glass. Students will learn different types of installation techniques and how to identify and use proper adhesives for glass installation.

CRR-500

DAMAGE ANALYSIS

Lec 1 Lab 2 Credit 2

This course will serve as an introduction to the evaluation of collision damage. Students will learn to identify primary and secondary damage and prepare a successful repair plan.

CRR-525

STRAIGHTENING STRUCTURAL PARTS

Lec 2 Lab 7 Credit 5.5

This course will serve as an introduction to the repair and realignment of modern Unibody and Body over frame-constructed vehicles. Students will learn to apply corrective forces to reverse collision damage accurately and efficiently with all forms of measuring equipment to restore vehicle to pre-accident condition.

CRR-575

ADVANCED STRUCTURAL REPAIR

Lec 2 Lab 8 Credit 6

This course will cover the proper sectioning techniques for structural components damaged in a collision. Techniques will focus on unibody and hydro-extruded frame components.

CRR-580

ADVANCED FRAME STRAIGHTENING

Lec 2 Lab 8 Credit 6

This course will explain new techniques in full frame and unibody anchoring which are used to straighten to pre-collision specifications. The use of advanced measuring systems will be explained and utilized.

CRR-610

STEERING AND SUSPENSION

Lec 1 Lab 1 Credit 1.5

This course will serve as an introduction to wheel alignment and steering component and suspension repair. Students will learn suspension repair related to collision damage, how to measure, diagnose and

realign steering components using modern state of the art equipment.

CRR-765

COMPUTER DIAGNOSIS FOR AUTO COLLISION

Lec 2 Lab 6 Credit 5

This course will study the safety related components that are damaged in a collision. The topics to be covered are: anti-lock brakes, seat belts, supplemental inflatable restraints and the computers that control them.

CRR-800

INTRODUCTION TO AUTOMOTIVE REFINISHING

Lec 1 Lab 3 Credit 2.5

This course will serve as an introduction to the field of automotive refinishing and teach students to practice environmentally friendly application and disposal procedures. Students will learn to identify modern automotive refinishing products and reference related technical data for proper mixing and application.

CRR-812

SURFACE PREPARATION

Lec 2 Lab 6 Credit 5

This course will serve as an introduction to applying modern automotive finishes and properly preparing substrates for refinishing. Students will learn to mix paint and identify and correct paint failures.

CRR-818

INTRODUCTION TO WATERBORNE FINISHES

Lec 1 Lab 2 Credit 2

This course will serve as an introduction to today's new automotive paint systems, and the techniques and equipment used to apply them.

CRR-845

COLOR TINTING AND MATCHING

Lec 1 Lab 3 Credit 2.5

This course will serve as an introduction to the evaluation of color matching and blending paint in automotive refinishing on modern automobiles and motorcycles. Students will learn to adjust tint, hue and chroma to obtain a blendable color match.

CRR-875

ADVANCED REFINISHING METHODS

Lec 2 Lab 8 Credit 6

This course will focus on today's high tech factory finishes and the techniques used to understand and repair finishes to factory quality. The course will also cover custom

refinish techniques used for restoration and painted graphic design on cars/trucks and motorcycles.

CRR-932

INTERNSHIP

Lec 0 OJT 16 Credit 4

Supervised work experience with an approved auto collision repair employer. Individual student eligibility will be determined by the instructor. Placement will depend on the student's skill level and the availability of appropriate training sites. Prerequisite: Successfully complete ALL Auto Collision Repair Course work through third semester.

Computer Science (CSC)

CSC-110

INTRODUCTION TO COMPUTERS

Lec 3 Credit 3

This course provides an introduction to computer concepts. The student will use the Windows operating system, presentation software, electronic spreadsheet software, database management software and word processing software. Microcomputer hardware and software as well as the processing concepts associated with each will be discussed. The course will also include information on file management, the Internet, virus protection, and e-mail basics as applicable to the academic world as well as the business environment. Lab time outside class is required to complete projects.

CSC-140

COMPUTER FUNDAMENTALS

Lec 3 Lab 2 Credit 4

This course is an introduction to the microcomputer in both hardware and software. The terminology, internal structure, board identification and associated peripheral equipment will be introduced. The Microsoft Office suite will be covered. The operating system will be covered along with structured programming in QBASIC.

Film and Theatre (DRA)

DRA-101

INTRODUCTION TO THEATRE

Lec 3 Credit 3

Orientation to the theatre, including a study of dramatic structure through selected play readings and through research in the basic theories of theatre.

DRA-110

INTRODUCTION TO FILM

Lec 3 Credit 3

This course introduces students to the various language systems of film, including film-making techniques, creators, genres, narratives, ideology, and film theory/criticism. Students will explore the cultural importance of cinema as art by analyzing selected movies and clips which demonstrate artistic excellence.

DRA-141

THEATRE AND SPEECH PARTICIPATION I

Lec 0 Lab 2 Credit 1

A concentrated laboratory course in specific areas of speech or theatre projects. Supervised participation involving the research, analysis and preparation of a specific speech or theatre project. Students will perform or demonstrate their skills at speech contests, community organization programs, or public performances sponsored by the College. The student must arrange for the area of participation prior to enrollment. May be repeated to a maximum of 4 semester hours.

DRA-142

THEATRE AND SPEECH PARTICIPATION II

Lec 0 Lab 4 Credit 2

A more extensive application of DRA-141. The student elects to participate in more than one area of speech or theatre programs, or assumes a major role in assisting with speech or theatre performance. The student must arrange for the areas of participation prior to enrollment. May be repeated to a maximum of 4 semester hours.

DRA-165

STAGECRAFT

Lec 2 Lab 2 Credit 3

This hands-on course will introduce students to scenery, costume, and property construction along with lighting and sound design. Included are stage development, theater safety and basic techniques involved in producing a live performance. Participation outside of class on a current production (either for SCC or a community production) is required.

Drafting (DRF)

DRF-113

FUNDAMENTALS OF TECHNICAL DRAFTING

Lec 1 Lab 4 Credit 3

Fundamentals of drawing techniques conveyed using free hand sketching. Emphasis is placed on the ability to visualize in three dimensions, neatness, accuracy, legibility, speed and use of computer graphics in the solution of graphic problems.

Early Childhood Education (ECE)

ECE-133

CHILD HEALTH, SAFETY AND NUTRITION

Lec 3 Credit 3

Health, Safety and Nutrition helps students learn how to create and maintain a safe and healthy environment for young children. Proper nutrition for children and practices that contribute to the prevention of illness are examined. The course reviews state laws and established policies for licensed child care centers related to health, nutrition, safety and child abuse and neglect. Students also learn American Red Cross First Aid and CPR for infants and children.

ECE-290

EARLY CHILDHOOD PROGRAM ADMINISTRATION

Lec 3 Credit 3

Addresses the childcare needs of parents and children in conjunction with childcare as a business. Childcare as a business is influenced by such external components as needs of families, locations, and history while the internal components of planning space, purchasing equipment, program management, resources, time and personnel also impact the program.

Economics (ECN)

ECN-110

INTRODUCTION TO ECONOMICS

Lec 3 Credit 3

An introductory economics course. Lessons will include both micro and macro economies. Competencies will include supply, demand, market structures, unemployment and international trade.

ECN-120

PRINCIPLES OF MACROECONOMICS

Lec 3 Credit 3

An introductory course in economics emphasizing macroeconomic theory and policy. The major topics will include economic systems, national income, national output, fiscal and monetary policy, unemployment, inflation, and, as time permits, international trade.

ECN-130

PRINCIPLES OF MICROECONOMICS

Lec 3 Credit 3

An introductory course in economics emphasizing micro-economic theory and contemporary problems. The major topics will include a description of the United States economy; demand and supply, price, output, and wage determination; domestic problems; international economics and the world economy.

Education (EDU)

EDU-212

EDUCATIONAL FOUNDATIONS

Lec 3 Credit 3

This survey course is designed to examine the historical, philosophical, sociological, political, economic, and legal foundations of the American public education system. Students will explore the nature of school environments, design and organization of school curriculum, and characteristics of effective schools and instruction in grades P-12. Educational structures, practices, and projections for the future will be studied. COREQUISITE: EDU-920.

EDU-220

HUMAN RELATIONS FOR THE CLASSROOM TEACHER

Lec 3 Credit 3

This course is designed to develop an awareness of teaching the responsibility of educators in establishing educational programs that attempt to develop sensitivity to and understanding of the different cultural/ethnic groups found in a pluralistic society. This course will include a history of the discrimination that many minority groups have encountered

in North America and possible educational strategies for dealing with the problems minority groups have encountered in the educational process.

**EDU-235
CHILDREN'S LITERATURE**

Lec 3 Credit 3

A survey of the history, critical issues, and characteristics of children's literature and an examination of both writing and illustration as the basis for evaluating and selecting children's literature for use in the pre-school and elementary classroom.

**EDU-240
EDUCATIONAL PSYCHOLOGY**

Lec 3 Credit 3

This course examines the application of psychological principles, theories, and methodologies to issues of teaching and learning. Theory and research concerned with human learning, development, behavior, and motivation is reviewed with an emphasis on the cognitive, psychological, and social factors that relate to and influence learning in educational settings. Prerequisite: PSY-111.

**EDU-247
TEACHING EXCEPTIONAL
LEARNERS**

Lec 3 Lab 1 Credit 3.5

A survey course introducing current and prospective teachers to the field of special education. Topics of study include the following: foundational knowledge, the new relationship between special and general education, legislation, characteristics of different types of exceptional learners, and research-based teaching strategies and accommodations.

**EDU-920
FIELD EXPERIENCE**

Lec 0 Lab 4 Credit 2

Field Experience provides the student an opportunity to observe a teacher in a local classroom and to work with students in that classroom under direct supervision of the cooperating teacher. The student will keep a reflective journal. Corequisite: EDU-212.

Engineering (EGR)

**EGR-420
PLTW DIGITAL ELECTRONICS**

Lec 2 Lab 2 Credit 3

This course is an introduction to fundamental digital circuits and systems presented by study of integrated circuit logic modules. Emphasis is placed on troubleshooting techniques and tools.

Engineering Technology (EGT)

**EGT-116
CONTINUOUS QUALITY
MANAGEMENT**

Lec 3 Credit 3

This introductory course will lead the student into the world of quality and the quality process. Students will analyze the performance of a production process, formulate process adjustments or improvements, and carry out the strategies for process adjustment and/or improvement.

**EGT-142
FLUID POWER 1**

Lec 1 Lab 2 Credit 2

This course discusses the fundamentals of hydraulic technology. Students will learn hydraulic circuits, pumps, actuators, valves, fluid, safety, maintenance, and troubleshooting. Students will also learn how to operate, install, analyze performance and design hydraulic systems.

**EGT-143
FLUID POWER 2**

Lec 1 Lab 2 Credit 2

This course discusses the fundamentals of pneumatic technology. Students will learn specific skills needed to understand the principles of pneumatics including circuits with compressed air power, air processing, valves, safety, maintenance, and troubleshooting. Students will learn industry skills including how to operate, install, analyze and design pneumatic systems.

**EGT-147
HYDRAULIC POWER SYSTEMS AND
TROUBLESHOOTING**

Lec 0.5 Lab 1 Credit 1

This course will cover the operation, diagnosis and maintenance of basic and complex hydraulic systems. Prerequisites: EGT-142.

**EGT-400
PLTW-INTRODUCTION TO
ENGINEERING DESIGN**

Lec 1 Lab 4 Credit 3

This course uses a design development process while enriching technical and engineering problem-solving skills; students create and analyze models using specialized computer software (AutoCAD Inventor).

**EGT-420
PLTW-DIGITAL ELECTRONICS**

Lec 2 Lab 2 Credit 3

This course is an introduction to fundamental digital circuits and systems is presented by study of integrated circuit logic modules. Emphasis is placed on troubleshooting techniques and tools.

Electronics Technology (ELE)

**ELE-116
BLUEPRINT READING**

Lec 1 Credit 1

This course discusses the specific data that is drawn on a blueprint and explains how to read and interpret the drawing format. Students will learn orthographic and isometric drawings to understand shapes, sizes, and dimensions. Students will study building terms and construction features of carpentry, masonry, electrical, mechanical and plumbing trades.

**ELE-127
TROUBLESHOOTING**

Lec 0.5 Lab 1 Credit 1

This course introduces students to the fundamental sequence of steps that can be applied when attempting to locate and repair problems in electrical and mechanical equipment. Students will learn how to use proper testing equipment to assist in finding faulty components. Students will learn how to plan a course of action for troubleshooting and repairs of equipment.

**ELE-130
HOME AND FARM ELECTRICITY**

Lec 1 Lab 2 Credit 2

This course introduces the requirements for residential and farm electrical systems. Emphasis will be placed on local and national Electrical Codes. Hands-on

experience will include such activities as basic wiring of the service entrance, circuits, switches, receptacles, lighting, special appliance circuits, and motor circuits. This course is specifically designed for students not choosing a construction curriculum.

ELE-195 MOTOR CONTROLS

Lec 1 Lab 4 Credit 3

This course discusses Motor Controls, components, operation and service. Students will learn electric relay control of AC and DC electric motors found in industrial applications. Students will also learn industry-relevant skills including how to operate, install, design, and troubleshoot AC and DC motor control circuits.

ELE-218 MOTION CONTROL

Lec 1 Lab 2 Credit 2

This course is an introduction to electronic motion control in industrial control systems. Students will work with motion control software, which communicates to servo controllers, servo drives, and motion controllers in industrial control systems. Precise torque, velocity, and position of rotary and linear prime movers or actuators are controlled with resolvers and encoders will also be studied.

ELE-219 SUPERVISORY CONTROL AND DATA ACQUISITION

Lec 1 Lab 4 Credit 3

This course discusses concepts related to acquiring data to monitor automated control systems (SCADA). Students will design and configure a SCADA control systems project using computer hardware, software, and networking.

ELE-310 INDUSTRIAL ELECTRICITY

Lec 1 Lab 2 Credit 2

This course discusses important properties of electricity and the common electrical elements found in industrial settings. Students will learn how to install and wire electrical components. Students will also learn how to layout a project; estimate wiring quantities, lengths, and sizes between panels and properly size and install conduit.

Electronics (ELT)

ELT-116 PRINCIPLES OF ELECTRONICS

Lec 3 Lab 4 Credit 5

This course analyzes the physical phenomenon of electricity in direct and alternating current circuits. Circuit analysis shall be through the application of various laws and theorems, and in the laboratory, through the use of typical test equipment.

ELT-119 APPLIED HUMAN BIOLOGY FOR BIOMED TECHNICIANS

Lec 3 Credit 3

This course presents the human biology, anatomy, physiology, and medical terminology essential for biomedical equipment technicians and the devices involved in patient care. Focus is on the vocabulary necessary for effective medical communication skills in the hospital environment as part of the health care team.

ELT-132 MOTOR DRIVES

Lec 0.5 Lab 1 Credit 1

This course discusses the fundamentals of motor drive operation and setup. Students will learn industrial AC electronic motor drives, which are used to provide accurate control of speed, position, and acceleration of industrial motors. Students will also learn industrial skills on how to operate, install, tune, and troubleshoot various industrial drives. Prerequisite: ELE-195.

ELT-176 INSTRUMENTATION

Lec 1 Lab 4 Credit 3

This course introduces students to the basic principles and concepts of process control, calibration, replacement, repair adjustment, troubleshooting, and use of test equipment. Students will learn how to calibrate, adjust, install, operate, and connect process control systems. Students will also learn how to measure signals and connect devices in a wide variety of control configurations including: PID control, on/off control, and manual control. Prerequisite: ELT-295.

ELT-232 PLC APPLICATIONS

Lec 2 Lab 4 Credit 4

This course provides a hands-on approach to develop fundamental knowledge of

PLC (Programmable Logic Controller) principles by exposing the student to ladder logic circuits and their practical applications. Ancillary input and output devices used with PLC systems are included as well as elementary electrical machines. While the laboratory utilizes Allen-Bradley PLC's, a generic design approach is stressed during the lectures. Design of practical working control circuits is included to enhance understanding. Also included are the various number systems, digital codes and program commands used in PLC's and integrated systems. Prerequisite: CSC-140 or equivalent.

ELT-250 PROGRAMMABLE LOGIC CONTROLLERS

Lec 1 Lab 4 Credit 3

This course introduces students to PLC tasks such as programming, wiring, troubleshooting, communications, and advanced programming. Students will learn industrial relevant skills on how to operate, interface, program and troubleshoot PLC systems. Students will learn how to set up software drivers, log onto networks, upload and download projects, and search for documentation.

ELT-262 ADVANCED PLC AND SYSTEM INTEGRATION (MECHATRONICS)

Lec 2 Lab 8 Credit 6

This course introduces advanced topics in programmable logic controllers using the Allen-Bradley ControlLogix and RSLogix 5000 programming software including programming input, output, bit, timer, counter, compare, move, and math instructions. Students will learn how to create and modify subroutines and configure devices. Students will learn industrial relevant skills on how to operate, program and troubleshoot PLC systems and learn system integration with, electrical, mechanical, pneumatic, and robotic devices.

ELT-295 AC/DC FUNDAMENTALS

Lec 1 Lab 2 Credit 2

This course introduces students to the components used in most electronic circuits and how they are measured, tested and function. Students will learn the fundamentals of AC and DC electrical systems used for power and control in industrial applications. Students will

learn how to operate, install, design and troubleshoot basic AC and DC electrical circuits.

ELT-329

DIGITAL ELECTRONICS FOR ET

Lec 3 Lab 2 Credit 4

An introduction to fundamental digital circuits and systems is presented by study of integrated circuit logic modules. Number systems, coding and elemental Boolean principles are also covered. Emphasis is placed on troubleshooting techniques and tools.

ELT-355

ELECTRONIC CIRCUITS I

Lec 3 Lab 4 Credit 5

Introduction to semiconductor circuit analysis. The operational characteristics and applications of diodes, bipolar and field-effect transistors, and linear integrated circuits will be examined. Troubleshooting methods and techniques will be discussed and applied in the laboratory. Prerequisite: ELT-116.

ELT-357

ELECTRONIC CIRCUITS II

Lec 3 Lab 4 Credit 5

An expansion on the material presented in Electronic Circuits I. This course will examine the op-amp further in its many linear and non-linear applications. Other related linear integrated circuits will be investigated and applied. Basic modulation and demodulation processes will be included. Prerequisite: ELT-355.

ELT-435

TELECOMMUNICATIONS

Lec 4 Lab 2 Credit 5

Examines electronic communications topics such as noise, frequency domain analysis, analog and digital modulation methods, transmitters, receivers, multiplexing, digital communications, telephony, transmission lines and wave guides, antennas, wave propagation, microwave and video. Prerequisite: ELT-355.

ELT-486

ELECTROMECHANICAL TECHNOLOGY

Lec 2 Lab 2 Credit 3

Students will use their previous knowledge in electronics to understand and apply real world mechanical applications in the industrial setting. Concepts learned will include fixturing, gearing, motors, and linear motion. Prerequisite: ELT-355.

ELT-630

MICROPROCESSOR/INTERFACING

Lec 3 Lab 4 Credit 5

This course is an introduction to techniques and equipment used for a variety of data acquisition requirements. The use of computers, test equipment, sensors and software for data acquisition in an industrial environment will be the main focus. Prerequisites: ELT-355 and ELT-329.

ELT-800

BIOMEDICAL ELECTRONIC SYSTEMS

Lec 3 Lab 2 Credit 4

This course examines the use of electronics in health sciences and related fields by bringing together the student's understanding of anatomy and physiology, chemistry and electronics to study the measurement of the body's electrical signals and other physiological measurements, to include cardiovascular, pulmonary, temperature, flow and pressures. This will include a hands-on study of medical equipment used in the hospital and other medical environments to diagnose and treat patients. Issues associated with patient and technician safety will be emphasized. This course will also explore applicable NFPA99, JCAHO, CLIA, FDA, and other regulatory agencies and their regulations governing medical equipment in the clinical environment. Prerequisites: ELT-119, ELT-357, ELT-630, BIO-163.

ELT-801

MEDICAL DOCUMENTATION AND COMPLIANCE

Lec 3 Credit 3

This course will teach the biomedical students to properly document their work when in the medical environment. This course will cover topics including HIPAA rights, NFPA99, AAMI, JC compliance, work order documentation, the use of SOP's and infection control. This course will also teach the students how to properly research these topics as regulations change frequently. Prerequisite: ELT-119.

ELT-932

INTERNSHIP

Lec 0 OJT 16 Credit 4

This internship is intended to be the clinical experience portion of the Biomedical Electronics Seminar. Students in this course will be assigned to a selected

setting to apply principles and skills learned in previous course. Graded on a Credit (P)/No Credit (Q) basis. Prerequisite: ELT-800.

Emergency Medical Services (EMS)

EMS-114

EMERGENCY MEDICAL RESPONDER

Lec 1 Lab 2 Credit 2

This course emphasizes the development of student skills in emergency medical care procedures. Curriculum includes life threatening emergencies, injuries to various body parts, techniques of moving patients, CPR BLS, mandatory reporting, and blood borne pathogens. Successful completion of course requirements allows students to write certification examination for Emergency Medical Responder. Course meets preadmission requirements for all health occupations. Students must be 17 to enroll.

EMS-201

EMERGENCY MEDICAL TECHNICIAN

Lec 5 Lab 2 OJT 4 Credit 7

This course is designed to instruct a student to the level of emergency medical technician who serves as a vital link in the chain of the health care team. Southeastern Community College's training program follows the National Highway Traffic Safety Administration's Department of Transportation (DOT) EMT curriculum. This course includes all skills necessary for the individual to provide emergency medical care at a basic life support level with an ambulance service or other specialized service. Southeastern Community College is approved by the Iowa State Department of Public Health (Bureau of EMS). Upon successful completion of this course, the student will be eligible to take the National Registry's practical and written exam for EMT certification. Students must be 17 years old to enroll. Prerequisite: Current basic life support certification (health care providers module).

EMS-239

ADVANCED EMERGENCY MEDICAL TECHNICIAN

**Lec 5 Lab 2 Clinical Credit 7
3**

This course will provide the student with roles and responsibilities of the EMS provider; well-being including injury prevention and infections disease; an overview of human systems; pharmacology; venous access; air-way management; training for management of medical and trauma emergencies; special considerations of the obstetric; neonatal, pediatric, and geriatric patients; and focus on assessment-based management. This course will also provide the student the opportunity to apply past and current cognitive knowledge and psychomotor skills in a supervised clinical or field setting. Student must have current Iowa EMT certification. Prerequisites: Healthcare Provider CPR, Current EMT Certificate.

**EMS-663
PARAMEDIC I**

**Lec 12 Lab 8 Clinical Credit
1.5 16.5**

This course prepares the student in the knowledge and skills needed in the pre-hospital environment. National Standard Paramedic Curriculum topics covered include: Well-being of the EMT, Illness and Injury Prevention, Ethics, EMS System, Roles and Responsibilities, Medical Legal Issues, Pathophysiology, Therapeutic Communications, Life-span Development, Airway Management and Ventilation, Patient Assessment, Communications, Documentation, Medication Administration, Pharmacology and Cardiology. Lab skills addressed include patient assessment, development of airway management skills, IV fluid management skills, communication skill development and cardiac monitoring skills. Prerequisite: Current Iowa EMT Certification.

**EMS-664
PARAMEDIC II**

**Lec 9 Lab 8 Clinical/OJT 4 Credit
3 15**

This course prepares the student in the knowledge and skills needed in the pre-hospital environment. National Standard Paramedic Curriculum topics covered include: Medication Administration and Medical and Trauma Emergencies of various body systems. This course has a hospital clinical internship. This internship provides the opportunity to apply, in the clinical setting, the didactic knowledge and

skills developed in the classroom and lab. It serves to assist the student to become an employable EMS provider. Clinical skills addressed include trauma management, patient assessment and evaluation, airway management skills, IV fluid management skills, communication skill development, and cardiac monitoring skills. Prerequisite: EMS-663.

**EMS-665
PARAMEDIC III**

Lec 2 Lab 2 OJT 16 Credit 7

This course prepares the student in the knowledge and skills needed in the pre-hospital environment. National Standard Paramedic Curriculum topics covered include: Review of previous course material, Pediatrics, Geriatric, Psychiatric Disorders, and Patients with Special Challenges. This course also includes hospital clinical internship. This internship provides the opportunity to apply, in the clinical setting, the didactic knowledge and skills developed in the classroom and lab. It serves to assist the student to become an employable EMS provider. Clinical skills addressed include pediatric assessment and management, gynecological management, geriatric management, trauma management, patient assessment, airway management skills, IV fluid management skills, communication skill development, and cardiac monitoring skills. Prerequisite: EMS-664.

English Composition (ENG)

**ENG-013
BASIC WRITING IN ENGLISH**

Lec 2 Lab 2 Credit 3

This course provides group instruction in basic writing skills: practice in all stages of the writing process; developing the skills to write a variety of focused, developed, and organized sentences, paragraphs, and short essays; writing to communicate with the reader; proofreading for spelling, grammar, and punctuation errors. Students in this course should not have previous or concurrent enrollment in Communication Skills, Composition I and/or II, Technical Writing, Business English, or Writing for the Workplace.

**ENG-067
COMPOSITION I LAB**

Lec 0 Lab 2 Credit 1

A basic writing skills laboratory to assist selected students while they are enrolled in English Composition I. Graded on a Pass (P)/No Pass (Q) basis. Prerequisites: Meet minimum placement test score requirement or ENG-061 with a grade of C- or better.

**ENG-105
COMPOSITION I**

Lec 3 Credit 3

A study of the principles of writing. Emphasis on rhetoric, mechanics, and development of expository patterns: narration, description illustration, comparison/contrast, classification, process, and cause/effect. Required for AA and AS Degrees. Prerequisites: Meet minimum placement test score requirement.

**ENG-106
COMPOSITION II**

Lec 3 Credit 3

A continuation of study of the principles of writing begun in ENG-105. Emphasis is placed on persuasive writing, critical analysis, and the MLA research paper. Time will also be spent exploring print and electronic research sources and learning effective research strategies. Required for AA and AS Degrees. Prerequisite: ENG-105 with a grade of C- or better.

**ENG-110
WRITING FOR THE WORKPLACE**

Lec 3 Credit 3

Writing for the Workplace prepares students for the various types of written communication required by professional employers. In this class, students learn how to write informal and formal documents and reports in the design and style of career-related communication with a focus on audience, purpose, subject, and genre and how they affect our writing choices. This course also includes a review of grammar and usage skills, as well as emphasizes effective language use in real-world applications.

**ENG-111
TECHNICAL WRITING (ONLINE)**

Lec 3 Credit 3

Studies the rhetorical techniques specifically oriented to industrial requirements. Applies expository patterns as incorporated within the report apparatus, including such specialized formats as process analysis, progress/ lab reports,

feasibility study, and the proposal. Also includes correspondence and application of basic library research skills. Course designed to satisfy specified career program requirements. Prerequisites: Meet minimum placement test score requirement.

ENG-131 BUSINESS ENGLISH

Lec 3 Credit 3

This course teaches the fundamentals of written communication with focus on the elements of effectively written business documents. The emphasis is on the development of writing skills through a) exercises in grammar, mechanics, usage, and spelling and b) application of these skills in a variety of written business documents. Prerequisites: Meet minimum placement test score requirement. No waivers.

ENG-221 CREATIVE WRITING

Lec 3 Credit 3

Instruction and practice in multiple genres of creative writing. Students study the art, craft, and discipline of creative writing by reading, discussing, and critiquing the work of prominent writers; by experimenting with various writing methods and techniques; and by reading, discussing, and critiquing student work. Instruction, practice, and workshops will address elements of creative writing such as content, structure, form, and style in particular and multiple genres. This course may be repeated for up to 6 credit hours. Prerequisite: ENG-105 with a grade of C- or better.

ENG-929 INDIVIDUALIZED PROJECTS

Lec 1-3 Credit 1-3

Extensive writing based on the interest and experience of the student. May receive 1 - 3 credits, based upon consultation with instructor. May be repeated for up to 4 credit hours.

Environmental Science (ENV)

ENV-111 ENVIRONMENTAL SCIENCE

Lec 3 Lab 2 Credit 4

An interdisciplinary approach to the problems of the environment. An

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examination and evaluation will be made of man's impact on the environment. Specific topics that may be covered include, but are not limited to: population issues, atmospheric issues, water issues, energy issues, resource issues, wildlife issues, and food issues.

ENV-145 CONSERVATION BIOLOGY

Lec 3 Lab 2 Credit 4

This course examines the ecological principles used in the preservation of biological diversity. Some topics explored are population dynamics, conservation genetics, island biogeography, mathematical modeling of ecological systems, disturbance ecology, Geographic Information Systems (GIS), reserve theory and wildlife corridors. Laboratories will involve fieldwork, data analysis, computer work and research. Prerequisite: ENV-111

Intensive English as a Supplemental Language (ESI)

ESI-010 PHONETICS AND PRONUNCIATION

Lec 3 Credit 3

The study of English segments and intonation for non-native speakers. Emphasizes the use of phonetic alphabet.

Focuses on using segmentations and intonation in informal language settings. Prerequisites: ESL-013, 015, 018, or minimum placement test score requirement.

Non-Intensive English as a Supplemental Language (ESL)

ESL-002 CULTURAL ORIENTATION

Lec 0 Lab 2 Credit 1

This course introduces new international students to American life, the educational

system and the Burlington community. It covers such topics as culture shock, academic honesty, personal safety, driving in Iowa, etc. This course will be taken on a Pass/No Pass basis only.

ESL-006 GRAMMAR IN CULTURAL CONTEXT

Lec 2 Credit 2

Communicative grammar course for non-native speakers of English. Includes studying the usage of different grammatical structures and their application in various areas of interaction. Exposes students to English culture and cultural expectations.

ESL-008 COMMUNICATION IN CULTURAL CONTEXT

Lec 2 Credit 2

Communication course for non-native speakers of English. Includes usage of listening and speaking skills across various areas of interaction: idioms and slang, small talk and business interviews. Exposes students to English culture and cultural expectations in conversations and oral interaction. This course is recommended to be taken in conjunction with ESL-006 Grammar in Cultural Context.

ESL-013 LISTENING/SPEAKING I

Lec 4 Credit 4

This is a listening/speaking course for non-native speakers of English. The course helps students develop basic speech competencies through integrated language skills. Students focus on language: pronunciation, word forms, word domains, idiomatic expressions, analogies using semantic context. It is recommended to take the course concurrently with ESL 015 Reading/Writing I, ESL-018 Grammar I.

ESL-015 READING/Writing I

Lec 4 Credit 4

This is a reading/writing course for non-native speakers of English. A beginning course designed to develop reading and writing skills; students learn new words and phrases, work on spelling and become familiar with the use of basic tenses.

It is recommended to take the course concurrently with ESL-013 Listening/Speaking I, ESL-018 Grammar I.

ESL-019 GRAMMAR I

Revised: 6/1/2023 5:21p.m.

Lec 4 Credit 4

This is a grammar course for non-native speakers of English. The course introduces students to the form, meaning, and usage of basic structures in English. It provides opportunities to practice through extensive and varied exercises leading to communicative activities. Concentration is on present and past tenses, copular be, nouns and pronouns. It is recommended to take the course concurrently with ESL-015 Reading/Writing I, ESL-013 Listening/Speaking I.

ESL-033 LISTENING/SPEAKING II**Lec 3 Credit 3**

This is a listening/speaking course for non-native speakers of English. This course further develops conversational skills in order to improve the ability to speak clearly and effectively. Authentic audio recordings, videotapes and listening to peers are used to develop listening skills. Daily work on pronunciation targeted at achieving an understandable accent. Prerequisite: ESL-013, Listening/Speaking and meets minimum placement test score requirements. It is recommended to take the course concurrently with ESL-035 Reading/Writing II, ESL-038 Grammar II.

ESL-035 READING/Writing II**Lec 3 Credit 3**

This is a reading/writing course for non-native speakers of English. This course increases reading skills in comprehension, speed and fluency. It continues development of understanding and using English sentence patterns through written practice. Prerequisite: ESL-015 and meets minimum placement test score requirements. It is recommended to take the course concurrently with ESL-033 Listening/Speaking II, ESL-038 Grammar II. Prerequisites: ESL-105 Reading/Writing I or meets minimum placement test score requirement.

ESL-038 GRAMMAR II**Lec 3 Credit 3**

This is a grammar course for non-native speakers of English. The course introduces students to the form, meaning and usage of the English structures. Communicative approach provides students with the immediate applications of the knowledge gained in the class. Work on new grammar tenses, modal verbs, adjectives and

adverbs. It is recommended to take the course concurrently with ESL-035 Reading/Writing II, ESL-033, Listening/Speaking II. Prerequisites: ESL-018 Grammar I or meets minimum placement test score requirement.

ESL-053 READING/Writing III**Lec 2 Credit 2**

This is a reading/writing course for non-native speakers of English. This course provides the students with intensive practice in reading strategies acquisition. Emphasis on understanding of the content while building language skills, predicting and understanding main ideas and details, identifying parts of speech. Critical thinking skills are practiced throughout the course. The students learn the process of prewriting, organizing, revising, and editing while reviewing and expanding the acquired vocabulary. It is recommended to take the course concurrently with ESL-055 Listening/Speaking III, ESL-058, Grammar III. Prerequisite: ESL-035 Reading/Writing II or meets minimum placement test score requirement.

ESL-055 LISTENING/SPEAKING III**Lec 2 Credit 2**

This is a listening/speaking course for non-native speakers of English. This course is designed to develop fluency in English and to improve the listening and conversational skills needed for careers and academic study. Speaking focuses on stress, rhythm, and intonation. Theme-based pronunciation practice reinforces the vocabulary and content of this class. It is recommended to take the course concurrently with ESL-053 Reading/Writing III, ESL-058 Grammar III. Prerequisite: ESL-033 Listening/Speaking III or meet minimum placement test score requirement.

ESL-058 GRAMMAR III**Lec 2 Credit 2**

This is a grammar course for non-native speakers of English. The class studies the structures of English with particular focus on patterns in grammar that are especially troublesome for non-native speakers of English. Applications of these structures are performed through extensive speaking and writing, and a variety of exercises.

It is recommended to take the course concurrently with ESL-053 Reading/

Writing III, ESL-055 Listening/Speaking III. Prerequisites: ESL-038 Grammar II or meet minimum placement test score requirement.

ESL-073 READING/Writing IV**Lec 2 Credit 2**

This is a reading/writing course for non-native speakers of English. Develops higher order comprehension skills such as distinguishing fact and opinion, mastering persuasion techniques. Emphasizes strategies and skills which will help increase reading speed and build vocabulary of words with multiple meanings and connotations. Leads students through the writing process by providing a wide variety of activities to help them master skills necessary for academic writing. It is recommended to take the course concurrently with ESL-075 Listening/Speaking IV, ESL-079 Grammar IV. Prerequisite: ESL-053 Reading/Writing III or meet minimum placement test score requirement.

ESL-075 LISTENING/SPEAKING IV**Lec 2 Credit 2**

This is a listening/speaking course for non-native speakers of English. Strong emphasis on comprehension of oral language as spoken by native English speakers. Continues to practice pronunciation in factual discourse. Develops skills in utilizing idiomatic expressions, negotiations, reducing miscommunication. It is recommended to take the course concurrently with ESL-073 Reading/Writing IV and ESL-079 Grammar IV. Prerequisite: ESL-055 Listening/Speaking III or meet minimum placement test score requirement

ESL-079 GRAMMAR IV**Lec 2 Credit 2**

This is an advanced course in grammar for non-native speakers of English offering introduction to such structures as gerund, infinitive, different types of clauses, and conditional sentences. Students learn to apply the structures in the factual discourse in class, and in a variety of written tasks.

It is recommended to take the course concurrently with ESL-073 Reading/Writing IV, ESL-075 Listening/Speaking IV. Prerequisites: ESL-058 Grammar III or meet minimum placement test score requirement.

ESL-080
READING/WRITING V

Lec 1-2 Credit 1-2

This is a reading/writing course for non-native speakers of English. Provides an extensive review of the skills necessary for academic success. Explores contemporary themes to stimulate critical thinking while building language competence. It is recommended to take the course concurrently with ESL-081 Listening/Speaking V, ESL-082 Grammar V. Prerequisites: ESL-073 Reading/Writing IV or meet minimum placement test score requirement.

ESL-081
LISTENING/SPEAKING V

Lec 1-2 Credit 1-2

This is a listening/speaking course for non-native speakers of English. Listening to live and audio-taped, authentic lectures, taking notes and making oral presentations based on research utilizing visual aids and support. It is recommended to take the course concurrently with ESL-080 Reading/Writing V, ESL-082 Grammar V. Prerequisites: ESL-075 Listening/Speaking IV or meet minimum placement test score requirement.

ESL-082
GRAMMAR V

Lec 1-2 Credit 1-2

This is a grammar course for non-native speakers of English. A survey of English grammar with emphasis on the production of more complex verb and sentence structures. Mastering the learned skills through the applications in a natural discourse, peer interaction, group discussions. It is recommended to take the course concurrently with ESL-080 Reading/Writing V, ESL-081 Listening/Speaking V. Prerequisites: ESL-079 Grammar IV or meet minimum placement test score requirement.

Finance (FIN)

FIN-121
PERSONAL FINANCE (ONLINE)

Lec 3 Credit 3

A study and evaluation of financial problems which individuals and families encounter within their personal affairs. The topics covered are budgeting, saving, consumer credit, personal insurance, renting or owning a home, investments, transportation and taxes.

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FIN-130
PRINCIPLES OF FINANCE (ONLINE)

Lec 3 Credit 3

An examination of the tools and techniques used in the world of finance. This course will introduce the student to basic financial concepts such as time value of money, asset valuation, risk analysis and return on investment. Evaluation and decision-making techniques will be used as they pertain to financial management in various business situations. Prerequisites: ACC-142, ACC-146 and ECN-120.

French (FLF)

FLF-141
ELEMENTARY FRENCH I

Lec 3 Lab 2 Credit 4

Introductory course for those with no prior background. Students become acquainted with the sounds and structure of French emphasizing useful vocabulary and development of basic conversational skills. Practice supplemented by regular lab activities.

FLF-142
ELEMENTARY FRENCH II

Lec 3 Lab 2 Credit 4

Progressive development of conversational skills with additional emphasis on reading. Prerequisite: FLF-141 or equivalent.

German (FLG)

FLG-141
ELEMENTARY GERMAN I

Lec 3 Lab 2 Credit 4

Introductory course for those with no prior background. Students become acquainted with the sounds and structure of German emphasizing useful vocabulary and development of basic conversational skills. Practice supplemented by regular lab activities.

FLG-142
ELEMENTARY GERMAN II

Lec 3 Lab 2 Credit 4

Progressive development of conversational skills with additional emphasis on reading. Prerequisite: FLG-141 or equivalent.

Foreign Language- Spanish (FLS)

FLS-141
ELEMENTARY SPANISH I (ONLINE)

Lec 3 Lab 2 Credit 4

This is an introductory course for those with no prior background in Spanish. Student is introduced to language skills of understanding, speaking, reading and writing with emphasis given to the first two skills. Related lab activities.

FLS-142
ELEMENTARY SPANISH II (ONLINE)

Lec 3 Lab 2 Credit 4

A continuation of FLS-141 emphasizing all four language skills with special attention to further development of conversational skills. Cultural readings and lab activities. Prerequisite: FLS-141 or C grade on Proficiency Test, or permission of instructor.

FLS-231
INTERMEDIATE SPANISH I (ONLINE)

Lec 3 Credit 3

A review of the fundamentals of grammar, emphasizes oral communication among students. It also aims at increasing students' reading comprehension, vocabulary and a better understanding of Hispanic culture. Prerequisite: FLS-142 or C grade on Proficiency Test or permission of instructor.

FLS-232
INTERMEDIATE SPANISH II (ONLINE)

Lec 3 Credit 3

A continuation of Intermediate Spanish I, reviews the fundamentals of grammar while emphasizing oral communication among students. It also aims at increasing students' reading comprehension, vocabulary and a better understanding of Hispanic culture. Prerequisite: FLS-231 or C grade on Proficiency Test or permission of instructor.

Geography (GEO)

GEO-121

WORLD REGIONAL GEOGRAPHY

Lec 3 Credit 3

The study and analysis of the major physical and cultural elements of the world. Emphasis on processes of acquiring, treating, and evaluating related information. For those with little or no prior background in the study of geography.

GEO-126

CULTURAL GEOGRAPHY

Lec 3 Credit 3

This course introduces students to fundamental concepts, skills, and practices of human geography. Place, space, and scale serve as a framework for understanding patterns of human experience. Topics for discussion may include population and migration, culture, diffusion, political and economic systems, language, religion, gender, and ethnicity.

Graphic Communications (GRA)

GRA-116

DIGITAL PREFLIGHT PRODUCTION

Lec 2 Lab 2 Credit 3

The main focus of this course is in preflighting techniques and color control. Advanced graphic design, color management skills, and printing technologies will be used in complex projects. The importance of communication between printer/pressroom and the graphic designer is also emphasized. This course integrates all facets of the graphic communications coursework and should be taken during the student's final semester. Prerequisites: GRA-275.

GRA-127

ILLUSTRATOR I

Lec 2 Lab 2 Credit 3

This course is designed to introduce the student to the application of rendering techniques. Emphasis is placed on controlling various media, methods, surfaces, design problems and the appropriate media selection process.

GRA-137

DIGITAL DESIGN

Lec 2 Lab 2 Credit 3

The student will gain familiarity with the function of graphic layout using electronic pagination software. Emphasis will be placed on publication design, development, reproducibility, and utilization of proper design techniques. Students will use this publishing package to create a variety of print media.

GRA-140

DIGITAL IMAGING

Lec 2 Lab 2 Credit 3

This course is designed to introduce the student to image manipulation software used in the electronic and print media industry. Emphasis will be placed on scanning, image editing techniques, using painting tool sets, color correction, ethics and digital photography techniques.

GRA-158

WEB MULTIMEDIA

Lec 2 Lab 2 Credit 3

An introduction to the creation of multimedia for use with web pages, kiosks, and CD/DVD. Video camcorders, digital cameras, digital recorders, touch screens, and iPods will be utilized in conjunction with computer hardware and software for media creation and manipulation. Media covered in the course will include podcasting, streaming video, streaming audio, live broadcasts, and presentations.

GRA-166

WEB ANIMATIONS

Lec 2 Lab 2 Credit 3

Animation can be an important part of information transfer from a web site to the viewer. Topics will include when animation is an appropriate tool to use, when animation should be avoided, what tools are the current standard for web animation, and how animation can be used to present information. The class will be project-based, with the student solving animation-related problems based on real business situations.

GRA-173

TYPOGRAPHY

Lec 3 Credit 3

This course is designed to provide the student with an introduction to the history and mechanics of type and its application to layout and design. Topics include typographic fundamentals, anatomy, measurements, identification, type aesthetics, communicative aspects and production problems. A working

knowledge of type in relation to images will be emphasized.

GRA-175

GRAPHIC DESIGN PRINCIPLES

Lec 3 Credit 3

A beginning course in designing printed pieces. This course will provide the student with an introduction to some of the basic principles of design aesthetics for print and web media. A history of the desktop publishing process, basics of communication, basic document structure, typography, use of color and illustration will be covered.

GRA-190

ELECTRONIC MEDIA PROJECTS

Lec 1 Lab 4 Credit 3

Students will interview originators to determine target audience, message, and time and cost constraints for a project. They will then use various pagination software and graphic design skills to produce finished, print-ready pieces. Prerequisites: GRA-137 and GRA-175.

GRA-275

ADVANCED GRAPHIC DESIGN

Lec 2 Lab 2 Credit 3

This course is designed to continue to guide the student in proper design and layout aesthetics. Emphasis will be on utilization of design principles and techniques for both short and long documents, publication planning, budgeting, scheduling, finishing processes, and working with outside printing companies. Prerequisite: GRA-175.

GRA-299

ELECTRONIC PORTFOLIO

Lec 2 Lab 2 Credit 3

Electronic Portfolio will help prepare the student for the next step, whether that is moving into the work force or presenting to the teachers at a four-year institution. Skills taught in this class will include preparation of an electronic portfolio, career-advancement skills, resume writing, and interviewing. Prerequisites: GRA-140, GRA-158, GRA-166 and WDV-101.

GRA-933

INTERNSHIP

Lec 0 OJT 16 Credit 4

This course is designed to provide the student with a practical experience in graphic communications prior to completion of the associate of applied science degree. Placement will depend on student's skill level and the availability of

appropriate training firms. The internship should be taken during the student's final semester.

Heavy Equipment (HEQ)

HEQ-131 SAFETY AND INTRODUCTION TO HEAVY EQUIPMENT

Lec 2 Lab 2 Credit 3

This is an introduction to the equipment, jobs, working conditions, maintenance, and safety of equipment operation.

History (HIS)

HIS-131 WORLD CIVILIZATION I

Lec 3 Credit 3

This course is an economic, social, political and cultural survey of world civilization from earliest times to 1300, as these areas relate to contemporary civilization. Areas covered include: history of primitive, ancient, medieval religions, government and law; far Eastern and ancient European philosophy; primitive and ancient medieval fine arts.

HIS-132 WORLD CIVILIZATION II

Lec 3 Credit 3

This course is an economic, social, political and cultural survey of development of world civilization from 1300 to the present. It is a continuation of HIS-131. However, students may enter during any semester.

HIS-151 US HISTORY TO 1877

Lec 3 Credit 3

A survey of American social, political, economic and intellectual developments from the Colonial period to 1877.

HIS-152 US HISTORY SINCE 1877

Lec 3 Credit 3

A survey of American social, political, economic and intellectual developments since 1877.

HIS-211 MODERN ASIAN HISTORY

Lec 3 Credit 3

An introduction to the three dominant societies of modern Asia: China, Japan and India. Emphasis will be given to the transformation of cultural, economic, intellectual and social patterns brought about by the military power and economic demands of contemporary Western societies.

HIS-231 CONTEMPORARY WORLD AFFAIRS

Lec 3 Credit 3

This course deals with the immediate problems facing the world from 1945 to the present, efforts to establish peace, the decline of colonialism, developments in the Third World, the Cold War, conflicting ideologies of the twentieth century and their interpretation in conflicting international economics and power struggles.

HIS-251 US HISTORY: 1945 TO PRESENT

Lec 3 Credit 3

An intensive study of the history of the United States since 1945, with an emphasis upon America's national and international problems during this period.

HIS-257 AFRICAN AMERICAN HISTORY

Lec 3 Credit 3

A study of African American people from their African origins through the contemporary civil rights movement in the United States. This survey includes the study of slavery before the Civil War, the examination of the role of the African American during the war and Reconstruction period, growth of segregation, and the fight for civil rights culminating in the current position of the African American in the United States.

HIS-266 THE CIVIL WAR

Lec 3 Credit 3

A study of the United States during the Civil War. A study of the political, social, economic, military, and diplomatic history of the United States from 1850 to 1877. A look at the causes of the Civil War, the War and its impact on US society, and the aftermath of the war.

HIS-271 AMERICAN FRONTIER HISTORY

Lec 3 Credit 3

An intensive study of the westward movement in American history. Topics

to be covered include: the Indians, the fur trade, the development of transportation, the government land policy, and the settlement of the Great Plains.

Health Information Technology (HIT)

HIT-211 BASIC MEDICAL INSURANCE & CODING

Lec 2 Lab 2 Credit 3

This course is designed to assist students in understanding the complexities of current insurance procedures encountered in today's medical facilities. The student will be familiarized with claims submission for programs such as Blue Cross/Blue Shield, Medicaid, Medicare, CHAMPUS/CHAMPVA, and Worker's Compensation. A comprehensive unit on CPT Procedural Coding as well as ICD-10-CM Diagnostic Coding is incorporated into the course. Managed health care is explored in depth. Prerequisites or Corequisites: HSC-114 and BIO-163.

HIT-320 HEALTH RECORDS MANAGEMENT

Lec 1 Lab 2 Credit 2

Explores the role of the health information professional in the management of health records. The course emphasizes the components, regulations and maintenance life cycle of health information in paper and electronic formats. Examines purpose of accreditation and regulatory standards in development of health record practice guidelines and the evolving role of the computerized applications. Corequisites: HSC-114 Medical Terminology

Health Science (HSC)

HSC-114 MEDICAL TERMINOLOGY

Lec 2 Lab 2 Credit 3

This course is designed to study the basic language related to medical science with emphasis on word analysis, construction,

definitions, pronunciations, spelling and standard abbreviations.

HSC-163 NUTRITION

Lec 3 Credit 3

Nutrition concepts across the lifespan are presented. An emphasis on weight management, obesity avoidance and prevention of common diseases (diabetes, heart disease, cancer and hypertension) that are dietary-related are discussed. Proper nutrition, a critical component for optimal learning, growing, healing and quality of life is emphasized.

HSC-168 NURSE AIDE

Lec Lab 1.3 Clinical Credit **2.25 2 3.5**

This course meets the training requirements of the Omnibus Reconciliation Act of 1987 (OBRA) for aides working in Nursing Facilities and Skilled Nursing Facilities. Emphasis in the course is on students achieving a basic level of knowledge and demonstrating skills to provide safe and effective care. Prerequisites: Student must be 16 years or older and pass a background check.

HSC-181 FIRST AID/CPR FOR NON-HEALTH CARE WORKERS

Lec 1 Lab 1 Credit 1.5

This course follows the American heart Association Basic Life Support (CPR) Heart Saver for the Lay Person. It includes AED and basic first aid. This course is not for health care workers.

HSC-212 PATHOPHYSIOLOGY (INDIAN HILLS CC COURSE)

Lec 3 Credit 3

The nature, cause, and treatment of disease are the focus of pathophysiology. The characteristics and etiology of diseases are presented using appropriate medical terminology to help students understand the relationship between clinical signs and disease processes.

HSC-226 HEALTH SOCIETY AND AGING (INDIAN HILLS CC COURSE)

Lec 3 Credit 3

This course provides a multidisciplinary perspective of aging. Biological, psychological, and sociological aspects of aging are explored. The impact of an aging population on societal issues such as

politics, education, public policy, religions and health care will be considered.

HSC-230 EMPLOYMENT PREPARATION (INDIAN HILLS CC COURSE)

Lec 1 Credit 1

This course is designed for students preparing to seek employment. Written documents, including letters and resumes, will be discussed and created. Job seeking techniques, including interviewing skills and human relations skills, will also be addressed.

Human Services (HSV)

HSV-163 HELPING SKILLS

Lec 3 Credit 3

An introduction to skills useful in dealing with people who abuse alcohol and drugs by introducing the student to basic communication and helping skills appropriate to dealing with people suffering from alcohol and other drug abuse; giving the student working knowledge of and practical experience with those skills. Prerequisites: HSV-261, SPC-112, ENG-105.

HSV-220 INTRODUCTION TO COUNSELING THEORIES

Lec 3 Credit 3

A survey of differing philosophies and styles of counseling approaches and their practical application. Including but not limited to: Transactional Analysis, Client-Centered Therapy, Rational Emotive Theory, Reality Therapy, Gestalt, etc. Actual practice in standard means of facilitating the helping process and identification of personal counseling style is included. Prerequisite: HSV-261.

HSV-228 GROUP COUNSELING TECHNIQUES

Lec 2 Lab 2 Credit 3

An overview of group counseling theories, methods and skills. Students will obtain the knowledge and skills necessary to facilitate counseling groups with chemically dependent clients. Students will practice and demonstrate competency in group facilitation skills. Students will also obtain experience as a group member through participation in a weekend training

group lab and ongoing group lab in class. Prerequisites: HSV-261, SPC-112 or SPC-122, ENG-105. Pre or corequisite: HSV-163.

HSV-241 SPECIAL ISSUES COUNSELING ADOLESCENTS

Lec 1 Credit 1

This course explores selected concerns that adolescents are likely to bring into a counseling situation. Topics include adolescent developmental tasks, causes of adolescent drug use, effects of drug use on adolescent development and treating chemically dependent adolescents.

HSV-261 INTRO TO CHEMICAL DEPENDENCY COUNSELING

Lec 3 Credit 3

A survey of the use, abuse and addictive nature of ethyl alcohol and other mood altering chemicals, providing the student with a basic knowledge of its nature, scope and complexity and the wide range of current approaches to its treatment and prevention.

HSV-262 WORKING WITH FAMILIES OF ALCOHOL AND DRUG ABUSE

Lec 3 Credit 3

A survey of the needs, symptoms, assessment and brief treatment of families of alcohol and drug abuse. Prerequisites: HSV-220, HSV-261.

HSV-285 CASE MANAGEMENT: INTAKE TO DISCHARGE

Lec 3 Credit 3

The course will offer an overview of the twelve core functions recognized as necessary for certification (assessment, treatment, planning, record keeping, etc.). Students will learn the knowledge and skills needed to effectively perform each core function. Prerequisites: HSV-261, HSV-163, SPC-112, ENG-105.

HSV-920 COUNSELING PRACTICUM

Lec 0 Lab 40 Credit 11

Supervised experience in substance abuse counseling which emphasizes practical application of the core functions. Prerequisite: A student must receive a grade of 'C' (2.0) or higher in each of the following courses: HSV-261, HSV-163, HSV-228, HSV-262, HSV-220, and HSV-285. Corequisite: HSV-925.

**HSV-925
COUNSELING PRACTICUM SEMINAR**

Lec 1 Credit 1

A class discussion and review of HSV-920 experience and the study of current issues in substance abuse. Prerequisites: HSV-261, HSV-163, HSV-228, HSV-262, HSV-220 and HSV-285.

Humanities (HUM)

**HUM-114
MULTICULTURAL PERSPECTIVES**

Lec 3 Credit 3

Selected readings from the critical perspectives of race, class and gender will provide the theoretical framework for class discussions. At the same time, films and works of literature from different cultural points of view will help students reach a new understanding of their own and other cultures and will open themselves up for a multicultural understanding of society.

**HUM-145
LANGUAGE AND SOCIETY**

Lec 3 Credit 3

This course is an introduction to sociolinguistics exploring the relationship between social and linguistic behavior. Analyzes factors influencing the choice of sounds, grammatical elements, and vocabulary; it codes the social function of a language. Focuses on the history of the language, various dialects, jargon, slang and differences between male and female language.

**HUM-287
LEADERSHIP DEVELOPMENT
STUDIES**

Lec 3 Credit 3

This course is designed to provide emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills. The course integrates readings from the humanities, experiential exercises, films/videos and contemporary readings on leadership.

Industrial Technology (IND)

**IND-104
INDUSTRIAL PUMPS**

Lec 0.5 Lab 1 Credit 1

This course discusses the principles and applications of centrifugal pumps. Students will learn centrifugal pump construction, uses, system properties, monitoring, and troubleshooting techniques. Students will also learn the skills they need to select, operate, install, maintain and repair the many different types of pumps used in industry.

**IND-106
MACHINE SHOP II**

Lec 1 Lab 2 Credit 2

This course introduces students to the basics of calculating cutting speeds and feeds for machining ferrous, non-ferrous, and plastics materials on the lathe. It also demonstrates the fundamentals of mounting a chuck on an engine lathe and truing a work piece in a chuck and introduces students to the three methods of facing work to length in a chuck. The course will show students how to straight turn a work-piece to two concentric diameters in a four-jaw independent chuck. Students will learn the correct procedures for taking both roughing and finishing cuts. They will also learn to turn between centers. Finally, students will learn the proper method of finishing one end of work to one diameter, reversing the work in the chuck, and finishing the other end to another diameter. It will demonstrate how to perform four internal machining operations on the engine lathe; drilling, boring, counter-boring, and reaming. Prerequisite: IND-103.

**IND-107
VALVES**

Lec 1 Credit 1

This course gives students a fundamental understanding of the various shutoff valve constructions including wedge, ball, plug, globe, pinch, and diaphragm types, basic maintenance techniques, and the sources of many problems. From this foundation, students will be better able to develop maintenance skills through plant training

programs or on-the-job experiences. The course also provides basic guidelines for installing various types of shutoff valves.

**IND-141
POWER TRANSMISSION**

Lec 1 Lab 2 Credit 2

This course discusses the fundamentals of mechanical transmission systems used in industry. Students will learn industrial skills on how to operate, install, analyze performance, and design basic mechanical transmission systems using chains, v-belts, spur gears, bearings, and couplings.

**IND-163
OSHA AND PLANT SAFETY**

Lec 2 Credit 2

This course relates OSHA as it applies to employers and employees engaged in a variety of businesses. Students will learn how OSHA applies to employers and employees in such varied fields as manufacturing, construction, agriculture as well as other work environments.

**IND-179
BOILER OPERATION AND CONTROL**

Lec 1 Lab 2 Credit 2

This course is designed to help students understand the evolution of the boiler system from the first century to modern day and understand the principles and applications of steam traps. This course will provide an overview of the operation of the boiler plate system, beginning with basic principles of steam energy and boiler plate design. This course will describe steam, steam trapping and different types of steam traps including sizing, installation and monitoring.

**IND-180
INDUSTRIAL HEATING AND
COOLING**

Lec 1 Lab 2 Credit 2

This course is designed to help students understand the fundamentals of HVAC & R. The students will learn chiller, air handler, cooling tower, and condenser operations as well as how to perform basic preventative maintenance tasks. The course also shows how preventative maintenance practices can be used in troubleshooting common HVAC & R problems.

Legal Assistant (LGL)

LGL-173

LEGAL ASSISTANT LITIGATION

Lec 3 Credit 3

This course prepares legal administrative assistant students to aid an attorney in litigation procedures. Students receive instruction regarding the detail necessary for trial preparation from the instant the dispute requires the services of an attorney.

LGL-280

LEGAL CASE STUDIES

Lec 2 Lab 2 Credit 3

Designed to lead students through real and simulated court cases from beginning to end. Students will follow and research trials such as those involving criminal activity, family law, estate law, probate, and bankruptcy. Students will learn the steps and timing for creating and filing corresponding court documents relevant to each case. Research, ethics, confidentiality, deadlines, and accuracy will be emphasized. Prerequisite: LGL-173 Legal Assistant Litigation.

Literature (LIT)

LIT-101

INTRODUCTION TO LITERATURE

Lec 3 Credit 3

Designed to promote an appreciation of excellence in literature through illustrative types of short fiction, poetry, and drama. Emphasis is placed on the reader's interpretive skills in examining an author's craft, intent, and format.

LIT-120

AMERICAN NOVEL

Lec 3 Credit 3

A survey of the American novel with emphasis on 20th century works.

LIT-121

AMERICAN SHORT STORY

Lec 3 Credit 3

A survey of the American short story from Edgar Allen Poe to the present.

LIT-131

NATIVE AMERICAN LITERATURE

Lec 3 Credit 3

A survey of all genres, fiction and non-fiction, produced by Native Americans.

Elements of study include the oral tradition influences, regional folklore, and autobiographical and historical materials created by contemporary and historical Native American authors. Off-campus visits to centers of Native American study will be conducted whenever possible.

LIT-150

WORLD LITERATURE I

Lec 3 Credit 3

A survey of important works of literature from the ancient world through the Renaissance. This will include selections of prose, poetry, and drama that represent the spirit of the times in which they were written.

LIT-151

WORLD LITERATURE II

Lec 3 Credit 3

A survey of important works of literature from the Renaissance to the present. This will include selections of prose, poetry, and drama that represent the spirit of the times in which they were written.

LIT-184

YOUNG ADULT LITERATURE

Lec 3 Credit 3

A discussion and evaluation of the literature written for adolescents. Types of literature for this age group and methods of utilizing this literature in school and home are addressed. Course concerns focus on the study of various Young Adult Literature genres, the reading/writing connection, authors' styles and themes and censorship.

LIT-209

FORMS OF LITERATURE: FILM ADAPTATION

Lec 3 Credit 3

Focuses on the relationship between literary works (fiction, drama, nonfiction, poetry or graphic literature) and their adaptations to film. Students explore the adaptation of literature to film; how the elements of plot, character, setting, point of view, symbol, and theme are adapted or altered from literature to film; and how film adaptations influence our understanding of both literature and film. Prerequisite: C- or above in ENG-105.

Medical Assistant (MAP)

MAP-121

Revised: 6/1/2023 5:21p.m.

ADMINISTRATIVE PROCEDURES I: MEDICAL OFFICE

Lec 2 Lab 4 Credit 4

This course is designed to acquaint students with the front-office administrative responsibilities of the medical assistant. The student will develop competency in written communication skills, including editing practice, sentence revision, paragraph writing and exercises in grammar, mechanics and usage. Other competencies will include appointment scheduling, telephone techniques, recording and filing medical records, processing mail, billing and collection procedures, banking services, accounting methods and payroll preparation. The student will also be introduced to preparation of professional medical meetings, travel arrangements and development of professional reports. The content of the course is adapted to the 2015 approved standards of CAAHEP.

MAP-122

ADMINISTRATIVE PROCEDURES II: MEDICAL OFFICE

Lec 2 Lab 2 Credit 3

This course introduces basic computer concepts and emphasizes the practical applications approach using simulated medical office management programs. The student is guided through a series of computer applications that highlight the most common aspects of the modern medical office including electronic claim filing. Resume development and job-seeking skills are also presented. Prerequisites: HSC-114, MAP-431, MAP-139, MAP-121, MAP-364, BIO-163.

MAP-139

INTRODUCTION TO ELECTRONIC HEALTH RECORDS

Lec 1 Lab 2 Credit 2

Introduction to Electronic Health Records involves the student in the management and application of health records. This includes the implementation and management of electronic schedule, creating patient medical record, management of immunization, electronic correspondence, laws and regulation of medical records. Prerequisite: 35 wpm timed typing test score. Corequisite: MAP-121.

MAP-364

CLINICAL PROCEDURES FOR MEDICAL OFFICE I

Lec 3 Lab 8 Credit 7

This course includes the numerous competencies required to assist the physician with patient examinations. Fundamental skills include: aseptic techniques and the sterilization of medical supplies; the psychological and physical preparation of the patient for a medical examination; preparation of surgical trays and assisting with minor surgeries; and the performance of routine urinalysis as ordered by the physician. Prerequisite: Acceptance into the program.

**MAP-369
CLINICAL PROCEDURES FOR
MEDICAL OFFICE II**
Lec 4 Lab 6 Credit 7

This course is designed to acquaint the student with the knowledge and skills required in the preparation, administration and documentation of various forms of medications. Dosage calculations and the physiological actions of drugs on the human body are addressed. Students will gain knowledge of venipuncture and use of quality controls. The student will gain knowledge of blood chemistries, serology, microbiology and hematology. Student will gain knowledge regarding the electronic medical record and its application in the clinical setting. Prerequisite: Successful completion of all fall semester curriculum.

**MAP-370
SPECIALTY PROCEDURES**
Lec 2 Lab 4 Credit 4

This course expands on basic clinical procedures with advanced theory, techniques and knowledge in specialty procedures and practice. Students will also focus on knowledge and skills to prepare and respond to emergency situations in a medical practice. Prerequisite: MAP-364. Corequisite: MAP-369.

**MAP-401
MEDICAL LAW AND ETHICS**
Lec 1 Credit 1

This course is designed to expose the student to legal concepts of standard of care, scope of employment, criminal and civil acts, contract, negligence and ethical concepts.

**MAP-431
HUMAN RELATIONS**
Lec 1 Credit 1

This course includes the study of the fundamental principles related to human relations, self-improvement, professional

appearance and attitudes, limitations, and behaviors. Principles of individualized client care and etiquette of the medical practice are emphasized.

**MAP-532
HUMAN BODY: HEALTH AND
DISEASE**
Lec 3 Credit 3

This course is designed to acquaint the student with the basic concepts and characteristics of disease processes, to impart basic knowledge of the etiology of the disease and to enable the student to understand the relationship between clinical signs and the disease process. Diagnostic tests and common treatments will be discussed. Concepts of health promotion and client education will be emphasized. Prerequisite: BIO-163.

**MAP-602
CLINICAL EXTERNSHIP SEMINAR**
Lec 1 Credit 1

A discussion of job related problems and study of current medical office procedures and clinical skills. Prerequisites: All previous program classes. Corequisite: MAP-615.

**MAP-615
CLINICAL EXTERNSHIP**
Lec 0 OJT 20 Credit 5

Following successful completion of the academic hours, the student is placed in a selected physician's office for a two-month required clinical practicum, working directly under supervision. A balance of learning experiences in both the administrative and clinical areas of the medical facility will be provided for the student during this training period. Students do not receive monetary compensation for externship experience. Prerequisites: All previous program classes. Corequisite: MAP-602.

Math (MAT)

**MAT-052
PRE-ALGEBRA**
Lec 2 Lab 2 Credit 3

Designed for students who have not mastered the basic skills of arithmetic or for students who need to review arithmetic. Topics studied include operations on whole numbers, fractions, decimals, percents, measurement, basic statistics, beginning geometry and beginning algebra. These topics are similar to those

topics covered in Math Skills I and II with an emphasis on problem solving techniques. Prerequisites: Meets minimum placement testing requirements.

**MAT-062
ELEMENTARY ALGEBRA**
Lec 2 Lab 2 Credit 3

This course is a beginning level course for students needing a start, or fresh start, in algebra. Topics covered include performing math operations on signed numbers, solving linear equations in one and two variables, solving systems of linear equations, applying exponent rules, performing math operations on polynomials, and factoring polynomials. Prerequisites: MAT-052 or equivalent with a minimum grade of C- or meets minimum placement testing requirements.

**MAT-079
ELEMENTARY GEOMETRY**
Lec 1 Lab 2 Credit 2

This course is designed for college students who have completed an introductory algebra course but did not take high school geometry or took it so long ago they need a review. This will be equivalent to one year of high school geometry. Prerequisite: Meets minimum placement test requirements or MAT-062.

**MAT-092
INTERMEDIATE ALGEBRA**
Lec 3 Lab 2 Credit 4

This course is recommended for students with at least one year of high school algebra or equivalent. It serves as a foundation for many other math, science, and business courses. Students will learn to apply algebraic models and standard solution methods to applied and theoretical problems, using technology when appropriate. Topics include a review of factoring polynomials, performing math operations on functions, solving rational equations, solving radical equations, solving and graphing quadratic functions, solving and graphing logarithmic and exponential equations. Prerequisite: MAT-062 or equivalent with a minimum grade of C- or meets minimum placement testing requirements.

**MAT-094
INDEPENDENT STUDY - MATH**
Lec 0 Lab 2 Credit 1

This course is designed to provide the student an opportunity to select a specific mathematical area to explore in greater depth than is possible in other available

courses. Independent Study topics will be determined by consultation between the student and instructor. Typical topics could include geometry, trigonometry, estimating, carpentry/mechanical/electrical preparation, etc. Credit earned in this course will not count toward the A.A., A.S., or A.A.S. degree requirements.

MAT-099 COMBINED ALGEBRA

Lec 5 Credit 5

This course is designed as a combined beginning and intermediate level algebra course. It serves as a foundation for many other math, science, and business courses.

Students will learn to apply algebraic models and standard solution methods to applied and theoretical problems, using technology when appropriate.

Topics include linear equations and inequalities in one and two variables, systems of linear equations, exponents, polynomials, functions, rational equations, radical equations, quadratic functions, and exponential/logarithmic equations. Prerequisite: MAT-052 or equivalent with a minimum grade of C- or meets minimum placement testing requirements.

MAT-110 MATH FOR LIBERAL ARTS

Lec 3 Credit 3

Math for Liberal Arts is a survey course for students who have little background in mathematics. Topics include survey of sets, numbers, algebra, geometry, probability, and statistics. This course is not intended for Mathematics and Science majors. Prerequisites: MAT-062 or equivalent with a minimum grade of C- or meets minimum placement testing requirements.

MAT-112 MATH FOR ELEMENTARY TEACHERS I

Lec 3 Credit 3

Math for Elementary Teachers I is the first of two mathematics course for students who want to pursue a major in elementary education. The course will use a variety of problem-solving skills while exploring many aspects of the real number system. Algebraic and concrete mathematical models will be incorporated in strategies used to solve problems. Prerequisite: MAT-062 with a minimum grade of C- or meets minimum placement testing requirements.

MAT-113

MATH FOR ELEMENTARY TEACHERS II

Lec 3 Credit 3

Mathematics for Elementary Teachers II is a second mathematics course for students who want to pursue a major in elementary education. The course will use a variety of problem-solving skills while exploring the many aspects of geometry and data analysis. Applications using concrete and pictorial models will be incorporated in strategies used to solve problems. Prerequisite: C- or above in MAT-112.

MAT-120 COLLEGE ALGEBRA

Lec 3 Credit 3

This course is a study of rational, exponential, logarithmic, and polynomial functions and relations, their graphs and related equalities. The study of the curricular functions, graphs, and applications is included. This course may be taken concurrently with MAT-134.

Prerequisites: MAT-092 or MAT-099 with a minimum grade of C-, or meets minimum placement testing requirements.

MAT-128 PRECALCULUS

Lec 4 Credit 4

This course is an in-depth review of mathematical concepts necessary in preparing students for calculus. Problem solving is emphasized. Topics from algebra, trigonometry, and analytic geometry essential in calculus are covered in this course. Topics include: properties of lines and quadratics, absolute value equations and inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, vectors, conics in both the rectangular and polar coordinate systems, parametric equations, systems of equations and inequalities, matrices, three-dimensional coordinate geometry, partial fractions, sequences and mathematical induction. Prerequisite: MAT-120 and MAT-134 with a minimum grade of C- or meets minimum testing requirements.

MAT-134 TRIGONOMETRY AND ANALYTIC GEOMETRY

Lec 3 Credit 3

The student will study degree and radian angles; apply basic geometric and trigonometric concepts to solve triangles; apply and graph trigonometric

functions and their inverses to solve applied problems; verify trigonometric identities; convert paired data between rectangular and polar notation systems; apply math operations on vectors and complex numbers; graph polar equations; and analyze/graph elliptic, hyperbolic, and other conic equations.

MAT-140 FINITE MATH

Lec 3 Credit 3

This course is designed for Business and Social Science majors. It introduces them to matrix solutions, to linear equations, linear programming, matrix algebra, mathematics of finance, computer applications, value of slope of a line, and exponential/logarithmic functions. Application problems are taken from Business Management and Social Science areas. Prerequisite: MAT-120 with a minimum grade of C- or meets minimum placement testing requirements.

MAT-149 LINEAR ALGEBRA

Lec 3 Credit 3

This course will include the study of systems of equations, matrices, determinants, vector spaces, inner product spaces, linear transformations, eigenvalues and eigenvectors. Applications relating to these topics will be investigated. Prerequisite: MAT-216 or meets minimum placement testing requirements.

MAT-156 STATISTICS

Lec 3 Credit 3

This course is an applied course in statistics, designed to introduce students to some of the concepts, symbols, procedures, and vocabulary used in the field of statistics. Topics covered in this course include: organizing and graphing data, descriptive statistics, probability, various distributions, the sampling distribution of the mean, estimating a population mean, confidence intervals, inferential statistics (hypothesis testing), comparing two population parameters, analysis of variance, correlation, simple linear and multiple regression, contingency tables, and nonparametric statistics, (time permitting). Prerequisites: MAT-092 or MAT-099 with a minimum grade of C- or meets minimum placement testing requirements.

MAT-165 BUSINESS CALCULUS

Lec 3 Credit 3

This course is a continuation of Finite Math, intended for Business Management and Social Science majors. It introduces them to theorems for finding derivatives, applications to maximum and minimum, related rates, graphing of functions, marginal cost and revenue, supply and demand, partial derivatives, antiderivatives, definite integral, tests for increasing and decreasing functions, concavity, maximum and minimum of functions of more than one variable, area under a curve, separable differential equations, growth and decay, and applications of the above to Business Management and Social Sciences. Prerequisite: 3 years of high school college prep math AND meets minimum placement testing requirements, or MAT-120 with a minimum grade of C-, or MAT-140 with a minimum grade of C-.

**MAT-210
CALCULUS I****Lec 4 Credit 4**

This course includes the study of limits and continuity, derivatives and differentiation, differentials, maximum and minimum function values and techniques of graphing, applications, and an introduction to integration. Prerequisites: MAT-120 AND MAT-134 with a minimum grade of C- or meets minimum placement testing requirements.

**MAT-216
CALCULUS II****Lec 4 Credit 4**

This course is a study of integration, techniques of integration, applications and accompanying mathematical structure. Prerequisite: MAT-210 with a minimum grade of C-.

**MAT-219
CALCULUS III****Lec 4 Credit 4**

This is a course on multivariable calculus which covers topics from the functions of several variable and vector valued functions. The course includes directional derivative, gradients, the curl, the divergence, multiple integrals over regions and volumes. Line and surface integrals will be covered. Double integral in the polar coordinates will be covered. Prerequisite: MAT-216 with a minimum grade of C-.

MAT-227**DIFFERENTIAL EQUATIONS WITH
LAPLACE****Lec 4 Credit 4**

This course is the study of elementary theory and applications of ordinary differential equations. The course includes first and second order differential equations. Prerequisite: MAT-216 with a minimum grade of C-.

**MAT-702
INTRODUCTION TO MATH
APPLICATIONS****Lec 2 Lab 2 Credit 3**

This course is offered to students who can profit from an applied course in mathematics and will prepare students who need to develop skills for MAT-704. It is designed as an introductory level algebra course recommended for students with one year of high school algebra. Emphasis is on the building of basic algebra skills and the application of these mathematical techniques. The course studies the relationship of geometry and algebra as they apply to various fields. This course will also cover whole numbers/decimals, integers, fractions/percents, direct measurement, basic geometric concepts/relationships, linear equations, and right-triangle trigonometry. Prerequisite: MAT-052 or meet minimum placement test requirement.

**MAT-704
MATH APPLICATIONS****Lec 5 Credit 5**

This course is offered to technical and other students who can profit from an applied course in mathematics. It is designed as an intermediate level algebra course recommended for students with at least one year of high school algebra. Emphasis is on the application of mathematical techniques. Students will study the relationship of geometry and algebra as they apply to electronics and mechanical technology problems. Algebraic manipulation of formulas, equations, radicals, exponents, logarithms, polynomials, rational expressions, systems of linear equations, plane trigonometry, vectors, and graphs of equations are studied. Prerequisite: MAT-062 or MAT-702 or meet minimum placement test score requirement.

**MAT-772
APPLIED MATH (ONLINE)****Lec 3 Credit 3**

This course is designed to acquaint the student with the mathematics necessary to function within technical careers and to become a more aware consumer. Topics include: review of arithmetic operations; measurement; metric system; fundamentals of geometry; introductory statistics and probability; graphs; and elementary algebra concepts with emphasis on applications.

Manufacturing (MFG)

**MFG-156
INTRODUCTION TO CNC
MACHINING****Lec 1 Lab 4 Credit 3**

Introduces basic operations of a CNC turret press. Covers basic and advanced tooling, programming using G & M code and CAM software. Emphasizes teamwork, critical thinking and problem solving through hands-on experience and practical applications.

**MFG-165
ENGINEERING MATERIALS****Lec 3 Credit 3**

A study of materials, their production, properties and uses in engineering design. Ferrous and nonferrous metals, polymeric and ceramic materials are covered. Methods of selecting acceptable materials based on their costs, availability and properties are discussed. Pre or Corequisites: PHY-106 or PHY-160 and MFG-212.

**MFG-206
MANUFACTURING PROCESSES I****Lec 1 Lab 4 Credit 3**

Basic course in measurements related to manufacturing, material removal, hard mold casting, powder metallurgy, plastics and rubber, material shearing, material forming, the use and manufacture of screw threads, abrasive removal methods, automation and introduction to numerical control. Lab sections demonstrate and give hands-on experiences in reading simple blue prints, layout, measurements and machining on tool room quality machine tools. Prerequisite: MAT-702.

**MFG-209
MACHINE SHOP PRACTICES**

Lec 1 Lab 4 Credit 3

Classroom and hands on training will be provided in machine shop safety and the use of machine shop tools and machines. Training will include proper use of hand tools, measuring tools, milling machines, grinders, lathes, drills and saws.

MFG-212**BASIC MACHINE THEORY****Lec 1 Lab 4 Credit 3**

Introduction to basic machining processes involving drill press, lathe, mills, drills, saws, bench tools, measuring tools, and grinders. Classes will cover safety, tooling, metal removal methods, and different various pieces of equipment.

MFG-228**MACHINE OPERATIONS II****Lec 2 Lab 4 Credit 4**

Covers advanced setup and operation of lathes, mills and grinders using different materials and cutters. Productivity and safe operation are emphasized. Prerequisite: MFG-237.

MFG-237**INTRODUCTION TO MACHINE TRADES****Lec 1 Lab 4 Credit 3**

Explores basics of machining, raw materials, use of hand tools, safety and maintenance. Includes measurement techniques, materials, safety, machine tool math, quality control and maintenance. Emphasizes teamwork, critical thinking and problem solving through hands-on experience and practical applications. Corequisite: MAT-702.

MFG-303**ADVANCED CNC PROGRAMMING****Lec 3 Lab 6 Credit 6**

Continuation of MFG-156, Introduction to CNC Machining adding canned cycles, looping, sub-routines and interpretation of programs written by others. Internal machining on the lathes is covered. More complex parts and production of multiple parts will be undertaken. Prerequisite: MFG-156.

MFG-323**MASTERCAM DESIGN****Lec 1 Lab 2 Credit 2**

This course provides an introduction to computer aided design and drafting. Actual hands-on experience in designing, drawing, and dimensioning, surface and solid modeling using Mastercam Design software will be provided. The course

presents logical step-by step instruction about the Mastercam commands, drawing aids, shortcuts and other valuable characteristics of Mastercam. This course will also feature 2D geometry and dimensioning, creating 3D surface geometry and 3D solids geometry and using Mastercam software to create Solid models using wireframe geometry. Finished copies of the students' work will be made on a printer or plotter.

MFG-511**LEAN QUALITY MANUFACTURING****Lec 3 Lab 2 Credit 4**

This course introduces the student to the basic principles of lean manufacturing and quality control inspection tools.

MFG-520**PREDICTIVE MAINTENANCE****Lec 1 Lab 2 Credit 2**

This course discusses the principles of machinery oil analysis, thermography, ultrasonics and machine vibration. Students will learn how to properly diagnose an equipment failure. Students will also learn steps to prevent equipment failures and keep equipment running efficiently.

Management (MGT)

MGT-101**PRINCIPLES OF MANAGEMENT****Lec 3 Credit 3**

This course provides an intensive examination of the basic fundamentals of organization and management underlying the solution to management problems.

MGT-130**PRINCIPLES OF SUPERVISION****Lec 3 Credit 3**

This course provides an overview of the principles involved in supervision, including planning, organizing, motivating, staffing and appraising. Also covered are interpersonal skills including communication, decision making, conflict and team work.

MGT-170**HUMAN RESOURCES MANAGEMENT****Lec 3 Credit 3**

This course provides an overview of the principles involved in human resources management including strategy, legal environment, EEO, and job analysis and

job design. Also covered are acquiring human resources, training and developing employees, compensation issues, and labor relations.

Marketing (MKT)

MKT-110**PRINCIPLES OF MARKETING****Lec 3 Credit 3**

This introductory class uses the managerial approach to study a market-directed system of marketing. The emphasis is on market strategy planning from the viewpoint of the marketing manager. The "4 Ps" -product, place, price, and promotion-provide the structure underlying the organization of this course.

MKT-121**DIGITAL MARKETING****Lec 2 Lab 2 Credit 3**

A complete overview of how to promote a business online, this course covers the basics of traditional marketing before going on to explore how these core concepts can be specifically applied to digital media. Students will learn the role that websites, social media, search engine placement, email and mobile marketing play in their overall marketing strategy and how best to take advantage of each.

MKT-140**PRINCIPLES OF SELLING****Lec 3 Credit 3**

Fundamental terminology, principles and techniques of direct and indirect selling as well as promotional methods. Emphasis on human behavior and the motivation, rewards, duties, and qualifications of a person in sales. This course is designed for an individual preparing for initial or improved employment.

MKT-150**PRINCIPLES OF ADVERTISING****Lec 3 Credit 3**

A detailed look into the study and practice of advertising with special emphasis placed on allowing students to plan and think more strategically, evaluate alternative courses of action, develop more creative solutions to problems, analyze why people behave the way they do, express themselves and their ideas, and persuade others to their point of view by using advertising terms, concepts, and

procedures. Prerequisite: MKT-110 or MKT-121.

MKT-160 PRINCIPLES OF RETAILING

Lec 3 Credit 3

Retailing organization, buying, selling, promotion, inventory control, pricing and location and layout.

Mass Media (MMS)

MMS-111 VIDEO PRODUCTION

Lec 1 Lab 4 Credit 3

Video Production introduces video equipment operation, techniques in video production, and specific production skills, including proper use of the non-linear editing systems, microphones, cameras, lighting equipment and tripods. For approximately 50 percent of the course, students experience hands-on application of material covered in lecture. Students produce both short and long format programs.

Medical Transcription (MTR)

MTR-158 INTRODUCTION TO MEDICAL SCRIBE

Lec 2 Lab 6 OJT 8 Credit 7

This course is designed to prepare students to create a patient care record under the direct supervision of a physician. Students will learn to recognize and obtain a chief complaint, history of present illness, past medical, social and family histories, review of systems, and physical exam. Medical procedures, lab results, and other pertinent patient information for a patient visit will also be covered. Practical experience will include transcription/editing of history and physical reports, consultation reports, SOAP notes, progress notes, and office notes. Students will obtain knowledge in classification of drugs, normal routes of administration, usage, and generic and brand names. Routine patient encounters, management

of chronic diseases, and characteristics of disease processes will be discussed. Students will identify the importance and challenges of medical documentation, including guidelines for evaluation and management of visits.

Applied Music (MUA)

MUA-101 APPLIED VOICE

Lec 1 Credit 1

Private instruction on band and orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-104 APPLIED VOICE

Lec 2 Credit 2

Private instruction on band and orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-108 ITALIAN/LATIN/ENGLISH DICTION FOR SINGERS

Lec 2 Credit 2

Italian/Latin/English is the first of a two-semester two-credit hour course for singers. The course is required for vocal majors at Southeastern Community College and is also open to interested singers of all ages. Students will be introduced to the International Phonetic Alphabet and its application in fostering correct pronunciation when singing. Application of concepts through singing and written exams is an aspect of the course.

MUA-120 APPLIED PIANO

Lec 1 Credit 1

Private instruction on band and orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-121 APPLIED PIANO II

Lec 2 Credit 2

Private instruction on band and orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-124 APPLIED GUITAR

Lec 1 Credit 1

Private instruction on band and orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-125 APPLIED GUITAR II

Lec 2 Credit 2

Private instruction on band and orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-126 APPLIED STRINGS

Lec 1 Credit 1

Private instruction on band and orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted

for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-127 APPLIED STRINGS II

Lec 2 Credit 2

Private instruction on band an orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

MUA-170 APPLIED WOODWINDS

Lec 1 Credit 1

Private instruction on band an orchestra instruments, voice, piano and organ. The students will be expected to perform on their instrument or voice at a public recital at the end of the term. Credit is granted for the specific areas studied, based on the amount of work, time and involvement as specified by the music faculty before enrollment. An additional fee is charged for each applied music area selected.

General Music (MUS)

MUS-100 MUSIC APPRECIATION

Lec 3 Credit 3

This is a general overview course which includes basic music concepts and elements of the art, a general historical look, and critical approach. Music as it has evolved from the beginning to present-day is studied. This involves listening to musical examples.

MUS-102 MUSIC FUNDAMENTALS

Lec 3 Credit 3

This course is designed for students who wish to learn how to read music for either further study as a major or for personal reasons. It is open to all students and is recommended for elementary education majors.

MUS-120 MUSIC THEORY I

100

Lec 3 Credit 3

This course is offered to students who wish to increase their musicianship through better understanding of the materials and structure of music and to those who plan to major or minor in music. The general purpose of the course is to help the student gain the necessary basic concepts of music fundamentals and harmony which will support more advanced theoretical instruction. Prerequisite: MUS-102. Co-requisite: MUS-135.

MUS-121 MUSIC THEORY II

Lec 3 Credit 3

This course is a continuation of Music Theory 1. Requires attendance at music programs as specified by the music faculty. Prerequisite: MUS-120. Corequisite: MUS-136.

MUS-135 MUSIC THEORY LAB I

Lec 0 Lab 2 Credit 1

This course is for development of skills in reading and hearing pitch, rhythm, melodic and harmonic sounds of music. The course is based on the principal that a qualified musician must develop reading, singing and notation skills in order to achieve acuity of aural perception and make this acuity effective in the use of these skills. Co-requisite: MUS-120.

MUS-136 MUSIC THEORY LAB II

Lec 0 Lab 2 Credit 1

Continuation of MUS-135. Prerequisite: MUS-135. Corequisite: MUS-121.

MUS-140 CONCERT CHOIR

Lec 0 Lab 2 Credit 1

Open to all college students who enjoy the aesthetic experience of choral singing. The choir is a performing group which meets regularly and performs a wide variety of choral literature. The choir presents programs throughout the college area and participates in state community college music activities. Maximum of 4 semester hours may be earned.

MUS-161 CLASS VOICE

Lec 0 Lab 2 Credit 1

Class Study in Vocal Performance. Fundamentals of Vocal Performance: Resonance, Breath Management, Intonation, Phrasing, and Stage Presence.

MUS-162

INSTRUMENTAL ENSEMBLES

Lec 0 Lab 2 Credit 1

This course is open to students who seek creative expression through ensemble performance. Credit is granted to those who meet requirements for rehearsals and performances through participation in the Southeast Iowa Symphony Orchestra, the Southeast Iowa Concert Band or an established instrumental ensemble at Southeastern Community College. A maximum of 4 semester hours may be earned.

MUS-204 HISTORY OF ROCK AND ROLL

Lec 3 Credit 3

This introductory course traces the history of rock and roll from its inception as a fusion of African-American and white music traditions amidst the youth culture of post WWII era in America to its present state as an internationally known musical style. This course will develop listening skills and incorporate extensive exposure to recorded music.

MUS-250 MUSICAL PLAY PRODUCTION

Lec 0 Lab 2 Credit 1

This course provides college credit for student involvement in the production of a musical play. Areas of focus may include: singing, acting, set work, props, sound reinforcement, and lighting. Auditions will be announced in advance. This course may be repeated for up to four semester hours of credit.

Computer Networking (NET)

NET-101 IT FUNDAMENTALS

Lec 1 Credit 1

This course will provide students with the fundamental technical knowledge about personal computers that is needed to work efficiently in the IT career field. Upon successful completion, students will be able to setup basic workstations, including installing basic hardware and software and establishing network connectivity and troubleshoot compatibility issues. It will also assist the students for preparing and taking the CompTIA IT Fundamentals

exam. Prerequisites: NET-122, Computer Hardware Basics; NET-142 Network Essentials

**NET-118
BASIC COMPUTER NETWORKING/
HARDWARE**

Lec 2 Lab 2 Credit 3

This course is an introductory course about basic computer networking concepts and computer hardware. It will provide a foundation for anyone needing basic computer knowledge. It covers network and hardware terminology, hardware devices, network protocols, topologies, and connections. The student will get hands-on experience adding and replacing hardware and network components.

**NET-122
COMPUTER HARDWARE BASICS**

Lec 2 Lab 2 Credit 3

This course is designed to improve the student's understanding of computer hardware and peripherals. The student shall gain an ability to determine the source of elementary equipment problems and the ability to isolate problems relating to software and hardware. Through hands-on labs, the student will obtain and demonstrate knowledge of installation, configuration, and repair.

**NET-142
NETWORK ESSENTIALS**

Lec 3 Credit 3

This course is designed to provide students with the background necessary to understand the local area networking information in Microsoft courses on workstations and networking. This course provides students with the information needed to build a foundation in current networking technology for local area networks, wide area networks and the Internet.

**NET-153
ADVANCED NETWORKING**

Lec 2 Lab 4 Credit 4

This course will allow the student to take knowledge from previous networking courses and apply it in a hands-on environment. The Microsoft network operation system will be emphasized. The student will also receive exposures to other advanced technologies. These technologies may include: switch/router configuration, computer forensics, computer ethics and cryptography. Prerequisites: NET-122, NET-142, NET-310, NET-314.

**NET-310
VIRTUAL MACHINES**

Lec 2 Lab 2 Credit 3

This course will cover the concepts of virtualization including hardware and software. Topics will include benefits vs. risks analysis, installation and configuration, operation and maintenance and disaster recovery using server and workstation virtualization techniques. Creation and administration of Virtual Desktop environments will also be covered. Prerequisites: NET-142 and NET-442.

**NET-314
WINDOWS SERVER**

Lec 2 Lab 4 Credit 4

Windows Server covers the issues of setting up a client/server environment using Windows Server software. The course begins with file server basics. Determining the cost of a network and choosing appropriate network hardware are included. Students will receive hands-on experience in preparing client computers, installing Windows Server software and setting up a complete client/server environment. They will learn how to configure a domain environment with DNS, DHCP, and remote access. There will be hands-on troubleshooting in the labs. Prerequisites: NET-142 and NET-122.

**NET-442
LINUX OPERATING SYSTEM**

Lec 2 Lab 2 Credit 3

This course will cover the essentials of installing, configuring, maintaining, administering and troubleshooting the Linux operating system.

**NET-621
SYSTEM SECURITY**

Lec 2 Credit 2

This course will provide students with practical knowledge needed for strong information security for an organization's daily operations. Students will have hands-on learning on handling day-to-day operations to secure an organization's data.

**NET-637
NETWORK INTRUSION
INVESTIGATION**

Lec 2 Lab 2 Credit 3

This course enables students to use penetration-testing tools and techniques that ethical hackers and security testers utilize to protect computer networks. Skills and techniques include foot

printing, social engineering, port scanning, enumeration and cryptography. This course incorporates a lab component in which students practice skills designed to secure network connections and prevent attacks. Prerequisites: NET-142, NET-314, and NET-442.

**NET-716
DATABASE ADMINISTRATION/
SERVICE APPLICATION**

Lec 2 Lab 2 Credit 3

Database Administration/Service Application will provide the student with experience installing, configuring, maintaining, and administering SQL Server and SharePoint. The key concepts of Structured Query Language are studied, including the basic structure of relational databases, how to read and write simple and complex SQL statements and advanced data manipulation techniques.

**NET-717
EMAIL APPLICATIONS**

Lec 2 Lab 2 Credit 3

This course will provide the student with experience installing, configuring, maintaining, and administering Exchange Server, as well as, an Exchange hybrid environment, where part of the mailboxes can be hosted in the cloud. Prerequisite: NET-314.

**NET-820
NETWORK INTERNSHIP**

Lec 0 OJT 16 Credit 4

This course is designed to provide the Network Administration & Cyber Security student with a practical experience in information technology prior to completion of the Associate of Applied Science degree. The internship is supervised by the program coordinator and should be taken during the student's last spring or fall semester on campus. Prerequisite: Student must be in final semester of Network Administration & Cyber Security AAS degree.

**NET-825
INTERNET/WEB INTERNSHIP**

Lec 0 OJT 16 Credit 4

This course is designed to provide the Web Design and Administration student with a practical experience in information technology prior to completion of the Associate of Applied Science Degree. The internship is supervised by the program coordinator and should be taken during the student's last spring or fall semester on campus. Prerequisite: Fifty hours

completed towards IT degree as a Web Design and Administration including CIS-504.

Occupational Therapy Assistant (OTA)

OTA-106 TRENDS IN OTA (INDIAN HILLS CC COURSE)

Lec 3 Credit 3

This course is an introduction to and investigation of a career choice in Occupational Therapy. A foundational overview of the history, philosophy, ethics, and role of occupational therapy in the health care environment is provided. The roles and functions of the occupational therapist and occupational therapy assistant in traditional and emerging practice areas, as well as the role of the AOTA will be explored. Models of care and the essentials of success in the OTA program will be discussed. Students will complete required HIPPA, Infection Control and Mandatory Reporting for child/adult training for Health Care Providers.

OTA-121 PRINCIPLES OF OT (INDIAN HILLS CC COURSE)

Lec 3 Lab 2 Credit 4

This course provides an introduction to skilled observation of identified performance areas in occupational therapy, activity analysis, goal setting, oral and written reporting skills, professional documentation formats and the use of the OT Practice Framework. Basic patient handling techniques and functional transfers will be practiced. Specific theory and philosophy with regard to physical, psychological, and developmental diagnosis will be addressed. Current issues relating to the field, the framework of occupational therapy practice and process, and intervention approaches will be examined.

OTA-131 PEDIATRIC PRACTICE FOR THE OTA (INDIAN HILLS CC COURSE)

Lec 3 Lab 2 Credit 4

This course introduces students to entry-level pediatric occupational therapy skills by examining theoretical practice

frameworks for individuals ages birth through twenty-one. Focuses of this course include: typical and atypical development, physical disabilities, neurological impairments, developmental dysfunction and their effects on childhood occupation. The role of the OTA in a variety of pediatric settings will be explored. Childhood conditions, evaluation, program planning and program implementation will be discussed. Family, sociocultural and socioeconomic conditions, legal issues and support services for the pediatric population will be explored.

OTA-141 THERAPEUTIC MEDIA IN OT (INDIAN HILLS CC COURSE)

Lec 2 Lab 2 Credit 3

This course addresses the knowledge and skills required to recognize the value of and link between life role occupations as applied to therapeutic interventions. Topics include the use of crafts and games, splinting, therapeutic exercises and application to various diagnoses. Activity analysis and methods of determining and selecting age appropriate and culturally meaningful activities for OT consumers will be examined. Approaches to teaching, learning, and professional communication will be explored through individual and group treatment role plays.

OTA-151 ADULT PHYSICAL DISABILITY PRACTICE FOR THE OTA (INDIAN HILLS CC COURSE)

Lec 3 Lab 2 Credit 4

This course examines occupational therapy theoretical practice frameworks in adult physical and neurological dysfunction. Common problems seen in medical and orthopedic diseases and disabilities that affect occupational performance in the adult will be addressed, and the method of treatment will be investigated. Treatment methods and activities such as splinting, exercises and physical agent modalities will be explored. Models of service delivery, motor control theories, daily living skills, work, leisure, education and social participation will be presented. Client-centered, meaningful occupation for the purposes of rehabilitation, skill maintenance and wellness, and prevention of decline in occupational performance will be emphasized.

OTA-161

TRADITIONAL AND EMERGING PRACTICE IN OT (INDIAN HILLS CC COURSE)

Lec 1.5 Lab 0.5 Credit 2

This course explores traditional, specialized and emerging practice areas in occupational therapy. Topics to be addressed may include: hand injuries, assistive technology, wheelchair assessment, low vision rehabilitation, lymphedema, vocational rehabilitation, work hardening and workplace assessments.

OTA-171 PSYCHOSOCIAL PRACTICE FOR THE OTA (INDIAN HILLS CC COURSE)

Lec 2.5 Lab 0.5 Credit 3

This course focuses on the role of the occupational therapy assistant in providing services in both medical and community-based settings. The relevance of occupation and goal-directed activity will be explained. A survey of conditions which may cause emotional, mental, and social disability will be explored. Normal and pathological conditions associated with aging will be discussed. An overview of group process, group leadership and facilitation, types of therapeutic groups and development of communication and observation skills will be included.

OTA-210 PROFESSIONAL ISSUES IN OT (INDIAN HILLS CC COURSE)

Lec 2 Credit 2

This course reinforces the concepts and principles of professionalism for the occupational therapy assistant in the delivery of services. Basic tenets of professional behavior, values, and ethics will be discussed. Topics addressed include: ethical and legal aspects, cultural competence, structure and function of institutions, reimbursement issues, and the roles of key professional organizations. Job seeking techniques including interview skills, and resume and letter writing will be addressed. Resources for life-long learning and professional support will be provided.

OTA-212 FUNCTIONAL KINESIOLOGY (INDIAN HILLS CC COURSE)

Lec 2 Lab 2 Credit 3

This course introduces human movement within the context of occupational performance. Principles from the biological sciences will be applied to the biomechanical principles of human

movement. Topics include survey of the skeletal system, articular system and muscular system. Exercise principles are explored from the perspective of the occupational therapy practitioner. Movement within the context of activities will be analyzed. Laboratory practice addresses basic biomechanics, manual muscle testing, goniometric measurement, range of motion techniques, and activities of daily living motion analysis.

**OTA-220
CLINICAL REASONING FOR OTA
(INDIAN HILLS CC COURSE)**

Lec 2 Credit 2

This course introduces the clinical reasoning process with a focus on analyzing functional status and occupational performance of a client, identifying problems and goals, and determining an appropriate plan of action. Aspects of clinical reasoning and evidence-based practice are explored.

**OTA-801
OTA LEVEL IA FIELDWORK (INDIAN
HILLS CC COURSE)**

Lec 0 Clinical 3 Credit 1

this course introduces students to clinical practice for individuals with pediatric or developmental conditions that limit or affect engagement in occupations. As participant observers, students will integrate academic experiences with occupational therapy process in settings serving clients with a variety of developmental challenges and disability. Through interactions with clients and staff, students will develop skills in observation of occupational performance, clinical safety, therapeutic communication, clinical relationships, professional behavior, and boundary setting.

**OTA-811
OTA LEVEL 1B FIELDWORK (INDIAN
HILLS CC COURSE)**

Lec 0 Clinical 3 Credit 1

This course introduces students to clinical practice for individuals with primary physical disabilities that limit or affect engagement in occupations. As participant observers, students will integrate academic experiences with occupational therapy process in settings serving clients with a variety of physical challenges and degrees of disability. Through interactions with clients and staff, students will develop skills in observation of occupational performance, clinical safety, therapeutic

communication, clinical relationships, professional behavior, and boundary setting.

**OTA-821
OTA LEVEL 1C FIELDWORK (INDIAN
HILLS CC COURSE)**

Lec 0 Clinical 3 Credit 1

This course introduces students to clinical practice for individuals with mental health conditions and disregulated behaviors that limit or affect engagement in occupation. As participant observers, students will integrate academic experiences with occupational therapy process in settings serving clients with a variety of psychosocial challenges and degrees of disability. Through interactions with clients and staff, students will develop skills in observation of occupational performance, clinical safety, therapeutic communication, clinical relationships, professional behavior, and boundary setting.

**OTA-831
OTA LEVEL IIA FIELDWORK (INDIAN
HILLS CC COURSE)**

**Lec 0 Clinical Credit 6
18**

This is the first of two capstone experiences which provide an opportunity for students to integrate and apply specialized occupational therapy theory, skills, and concepts to practice. Students will engage in this learning experience in a supervised clinical or community setting serving individuals with developmental, physical, or emotional challenges.

**OTA-841
OTA LEVEL IIB FIELDWORK (INDIAN
HILLS CC COURSE)**

**Lec 0 Clinical Credit 6
18**

This is the second of two capstone experiences which provide an opportunity for students to integrate and apply specialized occupational therapy theory, skills, and concepts to practice. Students will engage in this learning experience in a supervised clinical or community setting serving individuals with developmental, physical, or emotional challenges.

Physical Education Activities (PEA)

**PEA-187
PE ACTIVITY - WEIGHT TRAINING I
Lec 0 Lab 2 Credit 1**

Participation emphasizing physical conditioning, personal habits conducive to physical fitness, individual and team games and hygienic practices with a view toward carry-over value in future leisure time activities. A maximum of 4 semester hours may be earned.

Coaching/ Officiating (PEC)

**PEC-101
INTRODUCTION TO COACHING
Lec 3 Credit 3**

Introduction to Coaching consists of a four-part course that includes coaching theory, sports medicine, sports psychology, and sports physiology. It leads to coaching authorization for the State of Iowa as a junior high or senior high coach.

**PEC-116
ATHLETIC DEVELOPMENT AND
HUMAN GROWTH
Lec 2 Credit 2**

A study of the physical, cognitive, and psychosocial stages of development during middle childhood and adolescence and how these stages impact the coaching profession. This is one of the four courses leading to the coaching and authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity.

**PEC-120
BODY STRUCTURE AND FUNCTION
Lec 1 Credit 1**

An introduction to the physiological processes and anatomical features of the human body which are related to and affected by physical activity and training. This is one of the four courses leading to the coaching and authorization issued by the Iowa Department of Education as

a head coach or assistant coach of any interscholastic athletic activity.

General Physical Education and Health (PEH)

PEH-102 HEALTH

Lec 3 Credit 3

A survey of individual problems and community health problems. Aspects of mental illnesses; communicable, infectious, congenital, degenerative and vitamin deficiency diseases; hormone imbalance and harmful effects of narcotic drugs and alcohol are stressed. Measures involving the preventing, controlling and promoting of better mental health and physical health in general are emphasized. Designed to stimulate the formation of desirable attitudes toward the health of the individual and the community.

PEH-161 INTRODUCTION TO PHYSICAL EDUCATION

Lec 2 Credit 2

Orientation and exploration in the physical education field, career opportunities, responsibilities to the profession, ethical sports practices, historical background and social forces that act upon organized as well as informal sports.

Physical Education Training (PET)

PET-105 BASIC ATHLETIC TRAINING

Lec 3 Credit 3

This course serves as an introduction to the profession of athletic training. Students will be instructed in basic skills and theories of the profession including: measurement of vital signs, taping, wrapping, and immobilization. Students will become familiar with the roles, functions, and professional preparation of an athletic trainer as well as the history of the profession and its governing structures.

PET-140 ATHLETIC TRAINING PRACTICUM I

Lec 0 Lab 2 Credit 1

Athletic training skills instruction for the beginning student athletic trainer. Practical examinations cover material taught during scheduled meeting times and observation hours. Observation of athletic training skills and techniques used concurrent with athletic events. The purpose of this class is to provide students with clinical rotations during their freshman year. The rotation will be at multiple sites and sports with supervision from the Certified Athletic Trainer. Students will be expected to attend practices and games as assigned. At this time they will practice and demonstrate skills taught in the classroom. They will be in charge of a daily journal of activities and hours. Prerequisite: PET-105.

PET-230 CARE AND PREVENTION OF ATHLETIC INJURIES

Lec 2 Lab 2 Credit 3

This course will introduce the student to athletic injuries, assessment, and treatment. This course includes laboratory instruction in athletic taping and basic athletic training skills. The course also involves a directed observation requirement. Prerequisite: PET-105.

Intercollegiate Physical Education (PEV)

PEV-115 VARSITY BASEBALL

Lec 0 Lab 2 Credit 1

A course designed to give credit for knowledge and skills gained through varsity sports participation. Maximum of 4 semester hours may be earned.

PEV-121 VARSITY BASKETBALL, MEN

Lec 0 Lab 2 Credit 1

A course designed to give credit for knowledge and skills gained through varsity sports participation. Maximum of 4 semester hours may be earned.

PEV-122 VARSITY BASKETBALL, WOMEN

Lec 0 Lab 2 Credit 1

A course designed to give credit for knowledge and skills gained through varsity sports participation. Maximum of 4 semester hours may be earned.

PEV-130 VARSITY CROSS COUNTRY

Lec 0 Lab 2 Credit 1

This course provides credit for PEV varsity sports earned by participating as a regular member of a varsity team and fulfilling the contact hours associated for 2 lab hours. Team members will gain knowledge and develop skills through conditioning, practice, game preparation and/or weight training. This course is a one credit course and can be repeated for a maximum of four credit hours.

PEV-140 VARSITY GOLF

Lec 0 Lab 2 Credit 1

A course designed to give credit for knowledge and skills gained through varsity sports participation. Maximum of 4 semester hours may be earned.

PEV-145 SPORTS SHOOTING

Lec 0 Lab 2 Credit 1

This course provides credit for PEV varsity sports earned by participating as a regular member of a varsity team fulfilling all requirements of a team member. Team members will gain knowledge and develop skills through conditioning, practice, game preparation and/or weight training. This course is a one credit course and can be repeated for a maximum of four credits. A Criminal Background Check is required.

PEV-150 VARSITY SOCCER

Lec 0 Lab 2 Credit 1

This course provides credit for PEV varsity sports earned by participating as a regular member of a varsity team and fulfilling the contact hours associated for 2 lab hours. Team members will gain knowledge and develop skills through conditioning, practice, game preparation and/or weight training. This course is a one credit course and can be repeated for a maximum of four credit hours.

PEV-160 VARSITY SOFTBALL

Lec 0 Lab 2 Credit 1

A course designed to give credit for knowledge and skills gained through

varsity sports participation. Maximum of 4 semester hours may be earned.

PEV-170
VARSITY VOLLEYBALL

Lec 0 Lab 2 Credit 1

A course designed to give credit for knowledge and skills gained through varsity sports participation. Maximum of 4 semester hours may be earned.

PEV-190
VARSITY SPIRIT SQUAD

Lec 0 Lab 2 Credit 1

A course designed to give credit for knowledge and skills gained through varsity cheerleading participation. Maximum of 4 semester hours may be earned.

PEV-195
SPORTS MANAGEMENT

Lec 0 OJT 4 Credit 1

This course is designed to provide practical experience in various operations of an athletic program. Topics to be covered include, but may not be limited to: event and facility management, promotions and marketing, eligibility and compliance, budgeting, and public relations. Maximum of 2 semester hours may be earned.

Philosophy (PHI)

PHI-101
INTRODUCTION TO PHILOSOPHY

Lec 3 Credit 3

A topical introduction to the major areas of philosophical inquiry.

PHI-105
INTRODUCTION TO ETHICS

Lec 3 Credit 3

A survey of the major ethical emphases from ancient to modern times with pertinent reading in the works of representative philosophers.

Pharmacy Technician (PHR)

PHR-100
**INTRO TO PHARMACY TECHNICIAN
(INDIAN HILLS CC COURSE)**

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Lec 3 Credit 3

This course will provide students with the history of pharmacy, law and ethics of pharmacy, ways to protect patient confidentiality and the different roles of pharmacy technicians. Students will obtain appropriate communication, management and teamwork skills necessary to healthcare field. Safety and infection control policies and procedures, continuing education, and major trends in the pharmacy profession will also be presented.

PHR-110
PHARMACY TECHNICIAN I (INDIAN HILLS CC COURSE)

Lec 3 Credit 3

This course provides the student with the roles and responsibilities of the Pharmacy Technician. The different areas of patient-care settings, dosage forms, abbreviations, referencing, competency, communication, prescription processing, over-the-counter medications, complementary alternative medicine, and hospital pharmacy will be presented.

PHR-115
PHARMACY TECHNICIAN II (INDIAN HILLS CC COURSE)

Lec 4 Lab 1 Credit 5

Prescription processing, repackaging, compounding, aseptic technique, pharmacy stock, billing, and psychopharmacology will be discussed. Body systems and related pharmaceuticals will be examined. Students will be introduced to the basic sciences for pharmacy technicians, pharmacy organizations, and the future of technicians.

PHR-130
**PHARMACEUTICAL CALCULATIONS
(INDIAN HILLS CC COURSE)**

Lec 1 Credit 1

This course provides the student with the knowledge and skill necessary to perform dosage conversions and calculations. The apothecary system, metric system and common household measurements are presented. Mathematical calculations used to determine drug dosage is demonstrated.

PHR-141
PHARMACY OPERATIONS (INDIAN HILLS CC COURSE)

Lec 3 Credit 3

Procurement, billing, reimbursement, inventory management, and patient and medication safety will be discussed.

Students will be introduced to tech-check-tech and the future of technicians.

PHR-145
PHARMACY SIMULATION I (INDIAN HILLS CC COURSE)

Lec 0 Lab 2 Credit 1

This simulation experience provides the student with the opportunity to apply knowledge and develop skills as a pharmacy technician in an environment without impact, or potential impact, on patients.

PHR-148
PHARMACY SIMULATION II (INDIAN HILLS CC COURSE)

Lec 0 Lab 2 Credit 1

This advanced simulation experience provides the student with the opportunity to apply knowledge and develop skills as a pharmacy technician in an environment without impact, or potential impact, on patients.

PHR-150
**PHARMACY TECHNICIAN
PRACTICUM (INDIAN HILLS CC COURSE)**

Lec 0 Clinical 6 Credit 2

This course provides students with the opportunity to experience the profession of pharmacy at both community and hospital pharmacy sites. Practicum experiences will help the students decide which area of the profession they would like to pursue at program completion.

Physical Science (PHS)

PHS-120
EXPLORING PHYSICAL SCIENCE

Lec 3 Lab 2 Credit 4

This is combined lecture and lab course where lab/lecture are directly integrated. Topics covered come from physics, astronomy, chemistry, geology, and meteorology. Course intended for non-science majors. Prospective elementary and middle school teachers may find this course especially helpful. MAT-062 or High School Algebra recommended.

PHS-151
INTRODUCTION TO ASTRONOMY

Lec 2 Lab 2 Credit 3

A survey of astronomy including historical considerations, the solar system, the universe and special topics. Topics may

include the laws, the methods, and current research. Each planet will be studied as well as major stars and galaxies. Special topics include: cosmology, cosmogony, nova, pulsars, quasars, relativity, space travel, black holes, and other space mysteries. Lab to include: experiments, observations, slides and movies.

PHS-165 **INTRODUCTION TO METEOROLOGY**

Lec 3 Credit 3

Introduction to atmospheric sciences and meteorology. Includes physical elements and process of weather, climatic types and regions, forecasting and associated activity.

PHS-185 **INTRODUCTION TO EARTH SCIENCE**

Lec 3 Credit 3

An introduction to geologic processes that have generated and continue to alter the surface of the earth. Covers: major types of rocks and the rock cycle; rock deformation, weathering, transport and deposition by fluid agents; plate tectonics, volcanoes, earthquakes, orogeny; absolute and relative time and the geologic column. Includes segment on the history of geology.

Physics (PHY)

PHY-106 **SURVEY OF PHYSICS**

Lec 3 Lab 2 Credit 4

This class is designed as an introduction to the basic concepts of physics. Measurement, the scientific method, motion, forces, work and energy, simple machines, temperature and heat plus electricity and magnetism will be covered. Lab will be an integral part with activities augmenting the lecture concepts.

PHY-160 **GENERAL PHYSICS I**

Lec 4 Lab 2 Credit 5

This course is designed to provide a working knowledge of physics for those who need physics but do not need the rigor of a calculus-based physics course. The topics covered will include motion, force, energy, work, power, torque, linear momentum, rotational motion, angular momentum and selected topics from thermodynamics. The conservation

laws will be stressed. Topics in modern physics are covered as time permits. Solving practical problems will be a major emphasis. Prerequisite: MAT-704.

PHY-161 **GENERAL PHYSICS II**

Lec 4 Lab 2 Credit 5

This course is a continuation of General Physics I. The major topics to be covered will include selected topics from thermodynamics, vibrations, wave motion, electricity, and magnetism. Topics in modern physics are covered as time permits. Solving practical problems will be a major emphasis. Prerequisite: PHY-160.

PHY-212 **CLASSICAL PHYSICS I**

Lec 4 Lab 2 Credit 5

Classical Physics introduces the students to the classical topics of motion in one, two and three dimensions (Kinematics and dynamics), gravitation, work and energy, relativistic dynamics, rotational and oscillatory motion and thermodynamics. This physics course depends very much on the calculus of reals and vector integral calculus. Pre or Corequisite: MAT-210.

PHY-222 **CLASSICAL PHYSICS II**

Lec 4 Lab 2 Credit 5

Classical Physics II continues in the second semester with emphasis on the theory of electricity and magnetism. The concept of a field is applied to the electrostatic charge. The laws of Coulomb and Gauss are to be developed and applied to various types of charge distribution. Electric current and magnetic force are to be discussed in connection with their application to electromagnetic induction. Prerequisite: PHY-212.

Practical Nursing (PNN)

PNN-160 **INTRODUCTION TO NURSING PRACTICE**

Lec 2 Credit 2

This course provides the student with an introduction to nursing concepts and principles. From a historical perspective, the student will explore the roles and challenges of the nurse in the health care continuum. The curriculum strand of the nursing process is introduced

and serves as the foundation for the development of critical thinking skills. Other curriculum strands introduced include communication, stress and adaptation, wellness, professional accountability, information technology, time management and priority setting. Prerequisite: Certification in Iowa CNA 75 Clock Hours. Corequisite: PNN-220.

PNN-220 **PHARMACOLOGY FOR NURSING I**

Lec 2 Credit 2

This course introduces the student to the basics of pharmacology. Principles of drug administration, including dosage calculation and routes and techniques of administration are presented. Legal/ethical considerations, as related to drug therapy, are discussed. An overview of drug classifications, drug actions, common adverse reactions, and nursing interventions are included. Emphasis is placed on nursing responsibilities in drug therapy, including safe administration of all drugs. Corequisite: PNN-160.

PNN-311 **PN ISSUES AND TRENDS**

Lec 1 Credit 1

This course is an overview of the role of the licensed practical nurse. Ethical and legal responsibilities of the nurse are identified. Levels of practice, licensure, career opportunities, and beginning the job-seeking skills are addressed. Opportunities for professional growth are explored. Prerequisite: PNN-534. Corequisite: BIO-186.

PNN-534 **NURSING I**

**Lec 8 Lab 2 Clinical Credit
10.5 12.5**

This course builds on concepts previously presented in the curriculum. A systematic approach is utilized in providing nursing care to individuals, families and groups across the lifespan. The course emphasizes selected common and chronic alterations in health and includes essential content in fundamental nursing concepts and care. An opportunity is provided for students to apply theoretical knowledge, to utilize the nursing process, and to practice nursing techniques in clinical settings. Prerequisites: BIO-168, BIO-173, BIO-186, PNN-160 and PNN-220.

PNN-535 **NURSING II**

Lec 8 Clinical Credit 12
12

This course continues to incorporate concepts previously presented in the curriculum. A systematic approach is utilized in providing nursing care to individuals, families, and groups across the lifespan. This course emphasizes selected common and chronic alterations in health and includes essential content related to maternal-child care. An opportunity is provided for students to apply theoretical knowledge, to utilize the nursing process, and to practice nursing techniques in clinical settings. Prerequisite: PNN-534. Corequisite: PNN-311.

Political Science (POL)

POL-110
**INTRODUCTION TO POLITICAL
SCIENCE**

Lec 3 Credit 3

An introduction to the field of political science by illustrating the kind of contemporary issues political scientists deal with, the diversity of approaches they make and the significant results they hope to achieve. It will also acquaint students with the complex and vitally important subject of contemporary government and politics.

POL-111
**AMERICAN NATIONAL
GOVERNMENT**

Lec 3 Credit 3

A survey of the American federal system of government which includes a description and analysis of interest groups, political parties, public opinion, the presidency, the Congress, the court system and foreign policy making.

Paralegal (PRL)

PRL-284
LEGAL ETHICS

Lec 2 Credit 2

This course covers legal ethics with an emphasis on how the rules affect legal administrative assistants. Students learn about the regulation of the legal profession, including the rules of conduct that govern both attorneys and legal administrative assistants. Topics include

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the meaning and importance of the unauthorized practice of law, the attorney-client privilege and its related work product doctrine, confidentiality, the rules governing conflicts of interest, and other topics relative to ethics in law. Prerequisites or Corequisites: ADM-198, ADM-162.

Psychology (PSY)

PSY-102
HUMAN AND WORK RELATIONS

Lec 3 Credit 3

This is a course that includes the understanding of the applications of psychological principles, theory, and research related to the work setting.

PSY-111
INTRODUCTION TO PSYCHOLOGY

Lec 3 Credit 3

A basic course in the understanding of behavior, designed to give the student a scientific background in the fundamental problems and techniques covered in the field of psychology.

PSY-121
DEVELOPMENTAL PSYCHOLOGY

Lec 3 Credit 3

A systematic study of life-span development. Individual differences in behavior as well as cultural norms are considered in relation to heredity and environment.

PSY-211
PSYCHOLOGY OF ADJUSTMENT

Lec 3 Credit 3

A study of the adjusting/coping behavior of the individual in various aspects of life situations. Prerequisite: PSY-111.

PSY-226
PSYCHOLOGY OF AGING

Lec 3 Credit 3

This course will examine the physical, cognitive, social, and psychological changes that occur across the adult years and the factors influencing development in each area. Individual differences in the aging process will be emphasized with attention to the factors contributing to individual differences and the relevance of individual differences in addressing aging issues. The influence of society and societal attitudes toward older adults and the aging process will also be addressed. Additional learning opportunities will include interactions with older

adults in various situations including those in nursing homes, assisted living homes, retirement homes, and living independently in the community.

PSY-228
DEATH AND DYING

Lec 3 Credit 3

This course will introduce students to the study of death and dying and the cultural, social, biological, and psychological aspects of death and dying. Topics to be covered include the reality and definition of death, the grief process, care of the dying, cultural customs related to death and dying, views and attitudes toward death and dying, and the scientific, legal, and ethical issues surrounding death and dying. Exploration of one's own views and attitudes concerning death and dying will be encouraged. In addition, opportunities to visit death-related industries such as funeral homes and cemeteries and to interact with professionals in the field such as hospice workers, grief counselors, and funeral directors will be provided.

PSY-241
ABNORMAL PSYCHOLOGY

Lec 3 Credit 3

A survey of the history of mental illness including a study of normal and abnormal behavior as related to various cultures. Personality development, individual adjustment, and description of the various clinical entities and their relevance to present day life will be covered. Character disorders and personality structures which cause maladjustment are reviewed. A review of the theories of personality is included. Prerequisite: PSY-111.

PSY-251
SOCIAL PSYCHOLOGY

Lec 3 Credit 3

The study of interpersonal relations, social attitudes, group dynamics, intergroup relations, class and cultural influence in a psychological context. Prerequisite: PSY-111.

Respiratory Therapy (RCP)

RCP-231
**INTRODUCTION TO RESPIRATORY
CARE**

Revised: 6/1/2023 5:21p.m.

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Lec 3 Credit 3

An introduction to the respiratory care profession. Topics include respiratory care and the healthcare system; the economics, communication, documentation, and evidence –based practice; and the ethical and legal implications of practice. Students will also be introduced to entry level modalities such as oxygen and aerosol therapy. This is a companion course to RCP-232 Respiratory Care Modalities where competencies for this course will be practiced and evaluated in the laboratory or simulation center setting prior to hands-on clinical practice with adult patients in a hospital setting. Prerequisite: Admission to the program. Corequisites: RCP-232, RCP-233

**RCP-232
RESPIRATORY CARE MODALITIES****Lec 0 Lab 3 Credit 1.5**

This course allows the entry level respiratory care student an opportunity to practice procedures using equipment in the respiratory care lab and simulation center. This is a companion course to RCP: 231 and RCP: 233, in which competencies related to recall, application, and analysis using respiratory equipment are practiced and tested prior to patient care. Prerequisite: Admission to the program. Corequisites: RCP-231, RCP-233

**RCP-233
INTRODUCTION TO CLINICAL PRACTICE****Lec 3 Credit 3**

This course focuses on the interaction between patients and the respiratory therapist for the purpose of providing healthcare service(s) or assessing the health status of a patient. Subjects included in this course are infection control, informatics, preparation for patient encounter, taking a medical history, performing a patient interview, cardiopulmonary symptoms, vital signs, physical examination of the chest, evaluation of breath sounds, review and analysis of laboratory studies, and interpretation of ABGs., This is a companion course to RCP-232 Respiratory Care Modalities where competencies for this course will be practiced and evaluated in the laboratory or simulation center setting prior to hands-on clinical practice with adult patients in a hospital setting. Prerequisite: Admission to the program. Corequisites: RCP-231, RCP-232.

**RCP-331
RESPIRATORY CARE II****Lec 3 Credit 3**

This course is a continuation of Introduction to Respiratory Care and will build on the equipment and therapeutic modalities essential to clinical practice. Major topics include airway management and airway clearance techniques, respiratory mechanics and control of breathing, arterial blood gases, and methods of non-invasive ventilation. Prerequisites: RCP-231, RCP-232, RCP-233. Corequisites: RCP-350, RCP-751, RCP-332, RCP-333.

**RCP-332
RESPIRATORY CARE MODALITIES II****Lec 0 Lab 2 Credit 1**

This course allows respiratory care students an opportunity to practice procedures using equipment in the respiratory lab and simulation center. The primary focus of this skills lab course is the practice and preparation for required Competency Evaluations for Respiratory Care II. Prerequisites: RCP-231, RCP-232, RCP-233. Corequisites: RCP-331, RCP-333, RCP-350, RCP-751.

**RCP-333
CARDIOPULMONARY PHARMACOLOGY****Lec 2 Credit 2**

Introduces general pharmacological principles and management relative to the cardiopulmonary system. Includes management and treatment of specific cardiopulmonary disorders and drugs used in advanced cardiac life support (ACLS). Prerequisites: RCP-231, RCP-232, RCP-233. Corequisites: RCP-350, RCP-751, RCP-331, RCP-332.

**RCP-350
PULMONARY PATHOLOGY****Lec 3 Credit 3**

This course presents an overview of acute and chronic diseases affecting the pulmonary system. Diagnosis, assessment, treatment and management of the disease will be discussed. Prerequisites: RCP-231, RCP-232, RCP-233. Corequisites: RCP-331, RCP-332, RCP-333, RCP-751.

**RCP-440
CARDIO/PULMONARY DIAGNOSTICS****Lec 2 Credit 2**

This course will present various cardiopulmonary diagnostic tests and the role of the respiratory care practitioner.

Contents included: pulmonary function testing, cardiopulmonary exercise testing, specialized test regimens and quality assurance in the pulmonary function laboratory. Prerequisites: RCP-524, RCP-755, RCP-350. Corequisites: RCP-450, RCP-620, RCP-761.

**RCP-450
RESPIRATORY CARE IV****Lec 2.5 Lab 1 Credit 3**

This course will focus on advanced equipment and therapeutic modalities used in the practice of Respiratory Care. Major topics include ECGs, hemodynamic monitoring, cardiac pharmacology, polysomnography and pulmonary rehabilitation. Prerequisite: RCP-524. Corequisites: RCP-440 and RCP-620.

**RCP-480
ADVANCED CARDIAC CARE****Lec 2 Lab 1 Credit 2.5**

This course provides theory and laboratory practice in managing specific life-threatening cardiac dysrhythmias. Includes a review of basic life support, use of mechanical aids to establish an airway and maintain ventilation, ECG monitoring and recognition of life-threatening dysrhythmias, cardiac defibrillation and initiating appropriate cardiac drug therapy. Prerequisites: RCP-331, RCP-332, RCP-333, RCP-350, RCP-751. Corequisites: RCP-524, RCP-755.

**RCP-524
RESPIRATORY CARE III****Lec 4.5 Lab 1 Credit 5**

This course introduces the concepts of mechanical ventilation used in the respiratory support of the critically ill patient, with emphasis on indications for ventilation, parameters monitored during ventilation, function, and clinical applications. Prerequisite: RCP-331, RCP-332, RCP-333, RCP-350, RCP-751. Corequisite: RCP-755.

**RCP-620
NEONATAL/PEDIATRIC RESPIRATORY CARE****Lec 4 Lab 2 Credit 5**

This course will cover the assessment of the newborn and pediatric patient. Fetal circulation, congenital anomalies, respiratory disorders of the newborn, ventilation of the newborn, surfactant replacement, oxygen and aerosol therapy of the newborn and pediatric patient, as well as child development will be discussed. Prerequisite: RCP-524,

RCP-755. Corequisites: RCP-440, RCP-450, RCP-761.

**RCP-751
RESPIRATORY CARE CLINIC I**

**Lec 0 Clinical Credit 5
15**

Learners are assigned to various clinical experiences within the hospital and homecare settings in order to apply principles and skills learned in RCP-331, RCP-332, and RCP-333. Prerequisite: Satisfactory completion of RCP-231, RCP-232, RCP-233. Must be currently enrolled in or have satisfactorily passed RCP-331, RCP-332, RCP-333 and RCP-350.

**RCP-755
RESPIRATORY CARE CLINIC II**

Lec 0 Clinical 4 Credit 1

Learners are assigned to various clinical experiences within a health care setting to apply principles learned in the respiratory curriculum. Prerequisites: RCP-331, RCP-332, RCP-333, RCP-350 and RCP-751. Corequisites: RCP-524 and RCP-480.

**RCP-761
RESPIRATORY CARE CLINIC III**

**Lec 0 Clinical Credit 5
15**

Learners are assigned to various clinical experiences within a hospital and homecare setting to apply principles learned in the respiratory curriculum. Prerequisite: Satisfactory completion of RCP-524, RCP-755. Corequisite: RCP-450.

**RCP-767
RESPIRATORY CARE CLINIC IV**

**Lec 0 Clinical Credit 8
24**

Learners are assigned to various clinical experiences within a health care setting to apply principles learned in the respiratory curriculum. Prerequisites: RCP-440, RCP-450 RCP-620 and RCP-761. Corequisites: RCP-910 and RCP-810.

**RCP-810
RESPIRATORY CARE PROFESSIONAL**

Lec 2 Credit 2

The purpose of this course is to assist second year respiratory care students in preparing for autonomous professional practice. The role of the professional: duties to client, employer and public; professional responsibilities; involvement in continuing education and professional

career development will be explored. Prerequisites: RCP-440, RCP-450, RCP-620, RCP-761. Corequisites: RCP-766 and RCP-880.

**RCP-910
RESPIRATORY CARE RRT REVIEW**

Lec 2 Credit 2

This course is designed to test the student's ability to successfully earn passing scores on advanced-level examinations. Although advanced-level examinations will be the focus of this course, review of entry-level examination concepts will also be provided. Mock board examinations will be administered after completion of a comprehensive review seminar. Prerequisites: RCP-440, RCP-450, RCP-620 and RCP-761. Corequisites: RCP-810 and RCP-767.

Reading (RDG)

**RDG-045
KEYS TO READING**

Lec 2 Lab 2 Credit 3

A beginning course designed to build basic reading skills: identifying topics and main ideas, identifying supporting details, making inferences and recognizing patterns in paragraphs. A pretest will determine the student's appropriate level for vocabulary skill building, and students will work on vocabulary development at the appropriate level.

Religion (REL)

**REL-101
SURVEY OF WORLD RELIGIONS**

Lec 3 Credit 3

A survey of the major religions of the eastern and western world. Each religion is placed in its historical context, and its major tenets are explored. This course includes a general understanding of the various religions studied, some specific insights into each religion's belief structures and discussion of the general function of religion in human experience.

Science (SCI)

**SCI-115
BASIC ELECTRICITY**

Lec 1 Lab 2 Credit 2

An introduction to basic electricity and magnetism. A study of the relationship between voltage, current, and resistance. Power generation, power transfer and their applications. A basic understanding of the applied electrical circuits.

**SCI-123
FORENSIC SCIENCE**

Lec 3 Lab 2 Credit 4

Explores forensic science and its impact on science, society and the criminal justice system. Focuses on basic concepts in selected areas of chemistry, biochemistry, cell and molecular biology, and anatomy and physiology. This course is designed to educate liberal arts students about basic sciences, and the realities and limitations of scientific methods when applied specifically to criminal investigation.

**SCI-928
INDEPENDENT STUDY**

Lec 0 Lab 2-6 Credit 1-3

Individual study in a science area determined by consultation between the student and the department instructional staff. Study to be based in interest of student and capabilities of college facilities. Prerequisite: 12 hours of science work.

Student Development (SDV)

**SDV-108
THE COLLEGE EXPERIENCE**

Lec 0 Lab 2 Credit 1

This course is designed to empower new students to successfully transition to college. Students will learn academic success skills, strategies for personal development and exploration, college culture and expectations, and how to access college resources and services.

**SDV-125
WORKPLACE READINESS**

Lec 1 Credit 1

This course is designed to assist students in obtaining and maintaining employment. Topics include making career decisions, using labor market information, developing a portfolio and demonstrating positive attitudes and behaviors in the workplace.

**SDV-130
CAREER EXPLORATION**

Lec 1 Credit 1

This course is designed for students in developing an awareness of and skillfulness in career development process emphasizing self-assessment, occupational exploration and job placement.

**SDV-148
EDUCATIONAL PROGRAM
EXPLORATION**

Lec 1 Credit 1

This class assists students in examining post-secondary educational programs as they relate to career choices. The focus is on technical programs, transfer programs, course requirements, career awareness, and educational awareness as they relate to the process of career choices. Self-assessment instruments and/or field trips and/or job shadowing will help identify tentative educational plans and programs to assist students in designing an individualized career plan.

**SDV-153
PRE-EMPLOYMENT STRATEGIES**

Lec 2 Credit 2

This course is designed to aid students in developing the materials and skills necessary to obtain and maintain employment. Topics include character development associated with job success, job seeking skills, the application & hiring process, communication, teamwork skills and leadership skills.

**SDV-812
EXPERIENTIAL CREDITS**

**Lec 0 OJT Credit 3-9
12-36**

This supervised internship is designed to provide participation in a living and learning experience through an approved business establishment. This course may not be substituted for program specific internships. The course can be repeated for up to a total of 9 credits.

Social Media Marketing (SMM)

**SMM-108
SOCIAL MEDIA ENGAGEMENT**

Lec 2 Lab 2 Credit 3

This course explores the history of social networks and introduces students to social media for organizations. It provides students opportunities to implement the use of social media tools as part of a marketing strategy and work with social media analytic tools.

**SMM-220
NAVIGATING THE MEDIA
MINEFIELD**

Lec 3 Credit 3

This course explores the legal and regulatory issues surrounding social media platforms. Students will learn how to avoid common legal pitfalls and anticipate situations that may have potential legal consequences. Course content includes defamation, privacy issues, copyright and trademark, commercial speech, cyberbullying, and free speech boundaries.

Sociology (SOC)

**SOC-110
INTRODUCTION TO SOCIOLOGY**

Lec 3 Credit 3

An analysis of social organization (or the social order). This course deals with the nature of sociology as a science, the original nature of man, the socialization of the individual, the development of groups and group behavior, the nature of culture and culture patterns, the organization of institutions, the nature of social order, the organization of human stratification and examination of major social processes. Special emphasis is placed upon the American cultural patterns.

**SOC-114
CONFLICT RESOLUTION IN THE
WORKPLACE**

Lec 3 Credit 3

Conflict Resolution in the Workplace will study conflict resolution theories and applications in the workplace. The course will provide students with the opportunity to develop their own effective interpersonal conflict resolution skills as well as skills needed to help employees resolve their conflicts with one another and the skills needed to negotiate contracts. Students will also be introduced to theories and skills needed to apply culturally sensitive principles to conflict resolution.

**SOC-115
SOCIAL PROBLEMS**

Lec 3 Credit 3

An investigation into a selection of social problems involving alternative solutions. Topics may include drug and alcohol abuse, crime, violence, prejudice and discrimination, and human sexuality.

**SOC-120
MARRIAGE AND FAMILY**

Lec 3 Credit 3

A critical approach to the problems of the modern family with some information given to the historical perspective. Such topics as courtship and marriage, marital adjustment, the achievement of family unity, minority family types, parent-child relationships, economic and social changes in family organizations and family control will be covered.

**SOC-160
INTRODUCTION TO SOCIAL WORK**

Lec 3 Credit 3

The introductory course in social welfare systems and social work practice surveys the historical development of the social work profession in conjunction with the development of social welfare services in the United States, social welfare system responses to a variety of current social problems; generalist social work as a distinct profession; and specific settings and methods of social work practice.

**SOC-161
INTRODUCTION TO SOCIAL WORK
LAB**

Lec 0 OJT 4 Credit 1

Students will complete 72 hours of volunteer service in a social service setting. They will complete a paper analyzing the agency and evaluating their work in the agency. Corequisite: SOC-160.

**SOC-212
DIVERSITY**

Lec 3 Credit 3

This course studies gender, race, class, sexuality and other issues of diversity. The curriculum highlights the duality of oppression and privilege and the ways in which race, gender, class and sexuality shape daily life. Special focus is on learning how to demonstrate course concepts as social action. Social justice is practiced as students become educated in these concepts of diversity and engage in diversity conscious social action.

**SOC-230
JUVENILE DELINQUENCY**

Lec 3 Credit 3

A study of juvenile delinquency as an individual and social problem. This course includes theories of delinquency causations, law enforcement procedures, methods of corrections and prevention of juvenile delinquency.

SOC-240**CRIMINOLOGY****Lec 3 Credit 3**

A general survey of the history, nature and causes of crime, criminal investigation and prosecution, punishment, correctional treatment and crime prevention. Prerequisite: CRJ-100.

Speech (SPC)

SPC-101**FUNDAMENTALS OF ORAL COMMUNICATION****Lec 3 Credit 3**

Explores communication in a variety of contexts including interpersonal relationships, the workplace, small groups, and public speaking. Emphasis on the application and practice of communication theories and skills, particularly public speaking.

SPC-112**PUBLIC SPEAKING****Lec 3 Credit 3**

This course examines both the theoretical and practical basis of speech communication, particularly public speaking. Emphasis is on speech preparation, organization, support, delivery, and audience analysis.

SPC-115**ADVANCED PUBLIC SPEAKING****Lec 3 Credit 3**

A continuation of SPC-101 or SPC-112. This course presents advanced theories and techniques used in public speaking. After dinner speaking, persuasive presentations and campaigns, and lecture and training may be covered in this course. The course shall be designed, however, to meet the needs of the students. Prerequisite: SPC-101 OR SPC-112.

SPC-120**INTERCULTURAL COMMUNICATIONS****Lec 3 Credit 3**

Emphasizes communication theory across cultures. Focus is on identifying the cultural bases of beliefs, attitudes, values

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and behaviors. Interactive assignments are used for the purpose of recognizing commonalities across cultures, developing a more global multicultural perspective, identifying and appreciating other cultural orientations, and recognizing and assigning cultural explanations of specific behaviors. Prerequisites: SPC 112 or SPC 101.

SPC-122**INTERPERSONAL COMMUNICATION****Lec 3 Credit 3**

Emphasizes group problem-solving, semantics, and communication exercises leading toward better working relationships between individuals. Areas covered for this course would be language theory, nonverbal communication, perception theory, listening, group process and influences.

Web Development (WDV)

WDV-101**INTRODUCTION TO HTML AND CSS****Lec 2 Lab 2 Credit 3**

Introduces current standards of HTML, XHTML and CSS. Students will code HTML and CSS web pages, test them in browser and publish them to a web server. Page layouts will use various CSS techniques. Tables and forms will be used as well. A current version of Dreamweaver will be used to build more complex pages.

WDV-110**INTERNET FUNDAMENTALS****Lec 2 Lab 2 Credit 3**

Students will learn about internet connection methods and protocols. Web browser functionality, configuration and use. The use of web services, including advanced searching, email and social networking. How to use web based tools for research and collaboration as well as software development. Web security, including identification of risks, how to limit exposure and measures that can be taken to keep a computer system and personal information secure. Students will also cover the fundamental elements of project management and the importance this plays in the workplace.

WDV-120**INTERFACE DESIGN****Lec 2 Lab 2 Credit 3**

This course covers the design, prototyping, and evaluation of user interfaces to computers which is often called Human-Computer Interaction (HCI). Students will gain a strong understanding of user interface design. This covers references, user experience (UX), and usability principles. Topics include psychological and interaction principles, requirements analysis, designing for different screens (web, TVs and mobile devices), design standards, style guides, techniques and visual design principles. Prerequisite: GRA-175.

WDV-132**MOBILE APPLICATION DEVELOPMENT****Lec 2 Lab 2 Credit 3**

This course will introduce students to the skills required for building both web based and native mobile applications (apps). Students will explore when and why an app makes sense over a mobile web site and develop a range of small apps that take advantage of native device functionality. The differences between mobile OS will be explored along with the various distribution methods and publishing requirements currently available. Prerequisites: WDV-101 and CIS-125.

WDV-341**INTRODUCTION TO PHP****Lec 2 Lab 2 Credit 3**

This course will introduce PHP as a server side scripting language. It will introduce the MySQL database and the SQL language for use with PHP. Students will embed PHP and SQL code into html pages and publish them to a PHP enabled server. Students will create a web application that will allow for user login pages, as well as add, delete and updates of database content to web pages. Prerequisites: WDV-101, CIS-125 and CIS-332.

(WEL)

WEL-111**WELDING BLUEPRINT READING****Lec 2 Lab 2 Credit 3**

A course concerned with basic fundamentals of interpreting drafting as applied in the welding trade. Emphasis is placed on developing the ability to interpret blueprints from which the welder must work. A thorough coverage of

welding symbols is integrated within the course.

WEL-130
OXYACETYLENE WELDING

Lec 1 Lab 2 Credit 2

To provide a thorough technical understanding of metallurgy, oxyacetylene welding, flame cutting and brazing fundamentals and to develop skills necessary to produce high quality fillet and square groove welds in 3/16" plate and schedule 50 carbon steel pipe. Students develop understanding of weld hazards and safety procedures throughout the course.

WEL-160
ARC WELDING I (SMAW)

Lec 2 Lab 6 Credit 5

Provides a thorough technical understanding of shielded metal arc welding fundamentals, weld hazards and weld safety, power sources and electrode selection. Provides ample time and direction to develop skills necessary to make high quality welds on 16 gauge to 1/4" mild steel in all positions.

WEL-164
ARC WELDING II (SMAW)

Lec 1 Lab 6 Credit 4

An advanced course designed to develop skills, integrity, and confidence necessary to pass skill tests on pre-qualified joints on plate and structural steel as required of code welding by the American Society of Mechanical Engineers and American Welding Society. Prerequisite: WEL-160.

WEL-172
ADVANCED SHIELDED METAL ARC WELDING II

Lec 1 Lab 6 Credit 4

Provides understanding and skill development necessary to produce high quality welds on 3/8" to 1" mild steel in all positions. Includes information relating to air-arc cutting and gouging, procedures and welder qualifications, testing of welds and metals identification. Prerequisite: WEL-160.

WEL-182
FLUX CORED ARC WELDING

Lec 1 Lab 2 Credit 2

Provides thorough technical understanding of the flux cored arc welding process including adjustment and operation of power source, types of arc shielding, and safe operating procedure. Quality welds are produced on 3/8" to 1" carbon steel in all positions. Prerequisite: WEL-186.

WEL-186
GAS METAL ARC WELDING

Lec 2 Lab 4 Credit 4

Provides a technical understanding of the gas metal arc welding process, power sources and adjustment, metal transfer, shielding gases and weld safety. Develops skills necessary to produce high quality welds of 1/16" at 3/8" mild steel in all positions. Students will develop skills necessary to produce and bend-test single vee groove welds on 3/8" carbon steel in all positions according to American Welding Society code requirements.

WEL-192
GAS TUNGSTEN ARC WELDING

Lec 2 Lab 4 Credit 4

Provides a thorough technical understanding of the TIG (Heliarc) process including metal characteristics, electrode, filler metals, and shielding gases with emphasis on weld safety and procedures.

WEL-197
GAS TUNGSTEN ARC WELDING - TUBE

Lec 1 Lab 4 Credit 3

Develops skills necessary for making high quality all position welds on schedule 10 to schedule 40 carbon steel pipe; preparation and testing of pipe is included. Prerequisite: WEL-192.

WEL-198
ADVANCED GAS METAL ARC WELDING - ALUMINUM

Lec 1 Lab 2 Credit 2

An advanced gas metal arc welding course designed for the student who wishes to develop skills necessary to weld 0.050" to 0.250" aluminum in all positions. Prerequisite: WEL-186.

WEL-235
LAYOUT & FABRICATION

Lec 0 Lab 8 Credit 4

Teaches layout & fitting skills applicable to an industrial welding shop, including reading prints, estimating & ordering materials, performing layout & cutting work, and welding procedures applicable to fabricating a finished product. Emphasizes problem solving & cooperation within an industrial-like environment. Safety, accuracy and a commitment to excellence is emphasized. Prerequisite: Completion of first 3 semesters of welding program curriculum or approval of instructor.

WEL-292

PIPE WELDING/SMAW - UPHILL

Lec 1 Lab 6 Credit 4

Provides thorough technical understanding of uphill pipe welding procedures and application. Students produce welds using schedule 40 and 60 carbon steel pipe in 1G, 2G, 4G and 6G positions with a degree of skill necessary to meet American Society of Mechanical Engineer's code requirements. Prerequisites: WEL-160 and WEL-172 or successfully passing vertical and overhead guided bend-test on single vee open butt weld on 3/8" carbon steel according to American Welding Society code requirements.

WEL-720
INTRODUCTION TO ROBOTIC ARC WELDING

Lec 1 Lab 2 Credit 2

This course is an overview of robots used in the welding industry. Basic mechanisms, hydraulics, and pneumatics are covered. Students receive hands-on experience in programming a robot to weld fixture parts using the GMAW process. Prerequisite: WEL-186.

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